

```
<400> 1
gcagagacag actggtggtt gaacctggag gtgccaaaaa agccagctgc gggcccagga 60
cagctgccgt gagactcccg atgtcacagg cagtctgtgt ggttacagcg cccctcagtg 120
ttcatctcca gcagagacaa cggaggaggr tcccaccagg acggttctca ttatttatat 180
gttaatatgt ttgtaaactc atgtacagtt ttttttgggg gggaagcaat gggaanggta 240
naaattacaa atagaatcat ttgctgtaat ctttaaattg caaacgggtc ggccacgtga 300
aaaaaaaaaa aaaaaa                                     315
```

<210> 2
 <211> 380
 <212> DNA
 <213> Homo sapiens

<400> 2
 atttaggctt aagatTTTTgt ttacccttgt tactaaggag caaatttagta ttaaagtata 60
 atatatataa acaaatacaa aaagTTTTga gtggttcagc ttttttattt tttttaatgg 120
 cataactttt aacaacactg ctctgtaatg ggttgaactg tgggtactcag actgagataa 180
 ctgaaatgag tggatgtata gtgttattgc ataattatcc cactatgaag caaagggact 240
 ggataaattc ccagtctaga ttattagcct ttgttaacca tcaagcacct agaagaagaa 300
 ttattggaaa ttttgtcctc tgtaactggc actttgggggt gtgacttatc ttttgccttt 360
 gtaaaaaaaaa aaaaaaaaaa 380

<210> 3
 <211> 346
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 316, 317, 318, 322, 323, 326, 329, 330, 331, 336, 337, 339,
 340, 342, 343
 <223> n = A,T,C or G

<400> 3
 ttgtaagtat acaatTTTTag aaaggattaa atgttattga tcatttttact gaatactgca 60
 catcctcacc atacaccatc cactttccaa taacatttaa tccttttctaa aattgtaagt 120
 atacaattgt acttttcttg gatTTTcata acaaatacac catagactgt taattttatt 180
 gaagtttcct taatggaatg agtcattttt gtcttggtgct tttgagggtta cctttgcttt 240
 gacttccaac aatttgatca tatagtgttg agctgtggaa atctttaagt ttattctata 300
 gcaataattt ctattnnnag annccngggn naaaannann annaaa 346

<210> 4
 <211> 372
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 297, 306, 332
 <223> n = A,T,C or G

<400> 4
 actagtctca ttactccaga attatgctct tgtacctgtg tggctggggt tcttagtcgt 60
 tggtttggtt tggttttttg aactggatat taggggtggt cacagttcta atgtaagcac 120
 tctcttctcc aagttgtgct ttgtggggac aatcattctt tgaacattag agaggaaggc 180
 agttcaagct gttgaaaaga ctattgctta tttttgtttt taaagaccta cttgacgtca 240
 tgtggacagt gcacgtgcct tacgctacat cttgttttct aggaagaagg ggatgcnggg 300
 aaggantggg tgctttgtga tggataaaac gnctaaataa cacaccttta cattttgaaa 360
 aaaacaaaac aa 372

<210> 5
 <211> 698

<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature

<222> 8, 345, 422, 430, 433, 436, 438, 472, 481, 486, 515, 521,
536, 549, 553, 556, 557, 559, 568, 593, 597, 605, 611, 613,
616, 618, 620, 628, 630, 632, 634, 635, 639, 643, 647, 648,
649, 652, 654, 658, 664, 690

<223> n = A,T,C or G

<400> 5

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actagtanga tagaaacact gtgtcccgag agtaaggaga gaagctacta ttgattagag 60
cctaaccagcag gttaactgca agaagaggcg ggatactttc agctttccat gtaactgtat 120
gcataaagcc aatgtagtcc agttttctaag atcatgttcc aagctaactg aatcccactt 180
caatacacac tcatgaactc ctgatggaac aataacaggc ccaagcctgt ggtatgatgt 240
gcacacttgc tagactcaga aaaaataacta ctctcataaa tgggtgggag tattttgggt 300
gacaacctac tttgcttggc tgagtgaagg aatgatattc atatnttcat ttattccatg 360
gacatttagt tagtgctttt tatataccag gcatgatgct gagtgacact cttgtgtata 420
tntccaaatn ttngtnngt cgctgcacat atctgaaatc ctatattaag antttcccaa 480
natgangtcc ctggtttttc cagccactt gatcngtcaa ngatctcacc tctgtntgtc 540
ctaaaaccnt ctncnnang gttagaacngg acctctcttc tcccttcccg aanaatnaag 600
tgtngagaaga nancnncn cccccctncn tncnnectng ccngctnnnc cnctgtngg 660
gggngccgcc cccgcggggg gaccccccn ttttcccc 698
```

<210> 6

<211> 740

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 82, 406, 426, 434, 462, 536, 551, 558, 563, 567, 582, 584,
592, 638, 651, 660, 664, 673, 675, 697, 706, 711, 715, 716,
717, 723, 724, 725, 733

<223> n = A,T,C or G

<400> 6

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actagtcaaa aatgctaaaa taatttgga gaaaatattt tttaagtagt gttatagttt 60
catgtttatc ttttattatg tnttgtgaag ttgtgtcttt tcactaatta cctatactat 120
gccaatattt ccttataatc atccataaca ttataactac atttgtaaga gaatatgcac 180
gtgaaactta acactttata aggtaaaaat gaggtttcca agatttaata atctgatcaa 240
gttcttgta tttccaaata gaatggactt ggtctgttaa ggggctaagg gagaagaaga 300
agataagggt aaaagttgtt aatgaccaa cattctaaaa gaaatgcaa aaaaaattta 360
ttttcaagcc ttcgaactat ttaaggaaag caaaatcatt tcctanatgc atatcatttg 420
tgagantttc tcantaatat cctgaatcat tcatttcagc tnaggcttca tgttgactcg 480
atatgtcatc tagggaaagt ctatttcatg gtccaaacct gttgccatag ttggtnaggc 540
tttcctttta ntgtgaanta ttnacangaa attttctct tnanagttct tnatagggtt 600
aggggtgtgg gaaaagcttc taacaatctg tagtgtnctg tgttatctgt ncagaaccan 660
aatnacggat cgnangaagg actgggtcta tttaacangaa cgaatnatct ngttnnntgt 720
gtnnncaact ccngggagcc 740
```

<210> 7

<211> 670

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 265, 268, 457, 470, 485, 546, 553, 566, 590, 596, 613, 624,
639, 653, 659, 661
<223> n = A,T,C or G

<400> 7
gctggggagc tcggcatggc ggtccccgct gcagccatgg ggccctcggc gttggggccag 60
agcgggcccg gctcgatggc cccgtggtgc tcagtgaagc gcggcccgtc gcgctacgtg 120
cttgggatgc aggagctgtt ccggggccac agcaagaccg cgagttcctg gcgcacagcg 180
ccaaggtgca ctcggtggcc tggagttgag acgggcccgc cctacctcgg ggtcttcgac 240
aagacgccac gtcttcttgc tgganaanga ccgttggtca aagaaaacaa ttatcgggga 300
catggggata gtgtggacca ctttggttggc atccaagtaa tcctgacctt tttgttacgg 360
cgtctggaga taaaaccatt cgcattctgg atgtgaggac tacaaaatgc attgccactg 420
tgaacactaa agggggagaac attaatatct gctggantcc tgatggggcan accattgctg 480
tagcnacaag gatgatgtgg tgactttatt gatgccaaga aaccccgttc caaagcaaaa 540
aaacanttcc aanttcgaag tcaccnaaat ctcttgggaa aatgaacatn aatatnttct 600
tcctgacaat ggncccttggg tgtntcacat cctcagctnc cccaaaactg aancctgtnc 660
natccacccc 670

<210> 8
<211> 689
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 253, 335, 410, 428, 448, 458, 466, 479, 480, 482, 483, 485,
488, 491, 492, 495, 499, 500, 502, 503, 512, 516, 524, 525,
526, 527, 530, 540, 546, 550, 581, 593, 594, 601, 606, 609,
610, 620, 621, 622, 628, 641, 646, 656, 673
<223> n = A,T,C or G

<400> 8
actagtatct agaatgaac agtaaaagag gagcagttgg ctacttgatt acaacagagt 60
aaatgaagta ctggatttgg gaaaacctgg ttttattaga acatatggaa tgaaagccta 120
cacctagcat tgctacttta gccccctgaa ttaacagagc ccaattgaga caaacccctg 180
gcaacaggaa attcaaggga gaaaaagtaa gcaacttggg ctaggatgag ctgactccct 240
tagagcaaag ganagacagc cccattacc aaataccatt tttgcctggg gcttgtgcag 300
ctggcagtgt tcctgccccg gcatggcacc ttatngtttt gatagcaact tcgttgaatt 360
ttcaccaact tattacttga aattataata tagcctgtcc gtttgctgtg tccaggctgt 420
gatatatntt cctagtgggt tgacttttna aataaatnag gtttantttt ctccccccnn 480
cnntnctncc nntnctcnn cnntcccccc cnctcngtcc tccnnnttnn gggggggccn 540
ccccncggn ggacccccct ttgggtccct agtggagggt natggccctt ggnnttatcc 600
nggcctann tttccccgtn nnaaatgntt cccctccca ntccnccac ctcaanccgg 660
aagcctaagt ttntaccctg ggggtccccc 689

<210> 9
<211> 674
<212> DNA
<213> Homo sapiens

1000700-1300

<223> n = A, T, C or G

gtccactctc	ctttgagtgt	actgtcttac	tgtgcactct	gtttttcaac	tttctagata	60
taaaaaatgc	ttgttctata	gtggagtaag	agctcacaca	cccaaggcag	caagataact	120
gaaaaaagcg	aggctttttt	gccaccttgg	taaaggccag	ttcactgcta	tagaactgct	180
ataagcctga	agggaagtag	ctatgagact	ttccattttt	cttagttctc	ccaataggct	240
ccttcattga	aaaaggcttc	ctgtaataat	tttcacctaa	tgaattagca	gtgtgattat	300
ttctgaaata	agagacaaat	tgggccgcag	agtcttctctg	tgatttaaaa	taaacaaccc	360
aaagttttgt	ttggtcttca	ccaaaggaca	tactctaggg	ggtatgttgt	tgaagacatt	420
caaaaacatt	agctgttctg	tctttcaatt	tcaagttatt	ttggagactg	cctccatgtg	480
agttaattac	tttgctctgg	aactagcatt	attgtcatta	tcatcacatt	ctgtcatcat	540
catctgaata	atattgtgga	tttccccctc	tgcttgcctc	ttcttttgac	tcctctggga	600
anaaatgtca	aaaaaaaaagg	tcgatctact	cngcaaggnc	catctaataca	ctgcgctgga	660
aggaccnct	gccc					674

<213> Homo sapiens

<223> n = A, T, C or G

actagtctgc	tgatagaaag	cactatacat	cctattgttt	ctttctttcc	aaaatcagcc	60
ttctgtctgt	aacaaaaatg	tactttatag	agatggagga	aaaggtctaa	tactacatag	120
ccttaagtgt	ttctgtcatt	gttcaagtgt	attttctgta	acagaaacat	atttggaatg	180
tttttctttt	ccccttataa	attgtaattc	ctgaaatact	gctgctttta	aaagtcccac	240
tgtcagatta	tattatctaa	caattgaata	ttgtaaatat	acttgtctta	cctctcaata	300
aaagggtact	tttctattan	nnagnngnnn	gnnnnataaa	anaaaa		346

<213> Homo sapiens

actagtaaaa	agcagcattg	ccaaataaat	cctaattttc	cactaaaaat	ataatgaaat	60
gatgttaagc	tttttgaaaa	gttttaggta	aacctactgt	tgtttagatta	atgtatttgt	120
tgcttcctt	tatctggaat	gtggcattag	cttttttatt	ttaaccctct	ttaattctta	180
ttcaattcca	tgacttaagg	ttggagagct	aaacactggg	atttttggat	aacagactga	240
cagttttgca	taattataat	cggcattgta	catagaaagg	atatggctac	cttttggtta	300
atctgcactt	tctaaatatc	aaaaaaggga	aatgaagtta	taaatcaatt	tttgtataat	360
ctgtttgaaa	catgagtttt	atttgcttaa	tattagggct	ttgccccttt	tctgtaagtc	420
tcttggggtc	ctgtgtagaa	ctgttctcat	taaacaccaa	acagttaagt	ccattctctg	480
gtactagcta	caaattcggg	ttcatattct	acttaacaat	ttaaataaac	tgaaatatatt	540

ctagatggtc tacttctgtt catataaaaa caaaacttga tttccaaaaa aaaaaaaaaa 600
aa 602

<210> 12
<211> 685
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 170, 279, 318, 321, 322, 422, 450, 453, 459, 467, 468, 470,
473, 475, 482, 485, 486, 491, 498, 503, 506, 509, 522, 526,
527, 528, 538, 542, 544, 551, 567, 568, 569, 574, 576, 582,
587, 588, 589, 590, 592, 593, 598, 599, 603, 605, 608
<223> n = A,T,C or G

<221> misc_feature
<222> 633, 634, 635, 644, 646, 648, 651, 655, 660, 662, 663, 672,
674, 675, 682, 683
<223> n = A,T,C or G

<400> 12
actagtcctg tgaaagtaca actgaaggca gaaagtgtta ggatttttgca tctaattgttc 60
attatcatgg tattgatgga cctaagaaaa taaaaattag actaagcccc caaataagct 120
gcatgcattt gtaacatgat tagtagattt gaatatatag atgtagtatn ttgggtatct 180
aggtgtttta tcattatgta aaggaattaa agtaaaggac tttgtagttg tttttattaa 240
atatgcatat agtagagtgc aaaaatatag caaaaatana aactaaaggt agaaaagcat 300
ttagatatg ccttaatnta nnaactgtgc caggtggccc tcggaataga tgccaggcag 360
agaccagtgc ctgggtgggtg cctccccttg tctgcccccc tgaagaactt ccctcacgtg 420
angtagtgcc ctctgtaggtg tcacgtggan tantggganc aggccgnncn gtnanaagaa 480
ancanngtga nagtttcncc gtngangcng aactgtccct gngccnnnac gctcccanaa 540
cntntccaat ngacaatcga gtttccnnnc tccngnaacc tngccgnnnn cnngcccnc 600
cantntgnta accccgcgcc cggatcgctc tennntcggt ctcncncnaa ngggntttcn 660
cnnccgccgt cncnnccccg cnncc 685

<210> 13
<211> 694
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 503, 546, 599, 611, 636, 641, 643, 645, 656, 658, 662, 676,
679, 687
<223> n = A,T,C or G

<400> 13
cactagtcac tcattagcgt tttcaatagg gctcttaagt ccagtagatt acgggtagtc 60
agttgacgaa gatctggttt acaagaacta attaaatggt tcattgcatt tttgtaagaa 120
cagaataatt ttataaaatg tttgtagttt ataattgccg aaaataattt aaagacactt 180
tttctctgtg tgtgcaaagt tgtgtttgtg atccattttt tttttttttt taggacacct 240
gtttactagc tagctttaca atatgccaaa aaaggatttc tccttgaccc catccgtggt 300
tcaccctctt ttccccccat gctttttgcc ctagttttata acaaaggaat gatgatgatt 360
taaaaagtag ttctgtatct tcagtatctt ggtcttccag aaccctctgg ttgggaaggg 420

1000700-11001

```
<210> 14
<211> 679
<212> DNA
<213> Homo sapiens
```

<400> 14						
cagccgcctg	catctgtatc	cagcgccang	tcccgccagt	cccagctgcg	cgcgccccc	60
agtcccnac	ccgttcggcc	cangctnagt	tagncctcac	catnccggtc	aaaggangca	120
ccaagtgc	caaataacctg	cngtncggat	ntaaattcat	cttctggctt	gccgggattg	180
ctgtccntgc	cattggacta	nggtccgat	ncgactctca	gaccanganc	atcttcganc	240
naganactaa	tnatnatnt	tccagcttct	acacaggagt	ctatatcttg	atcggatccg	300
gcncctcnt	gatgctggtg	ggcttcctga	gctgctgcgg	ggctgtgcaa	gagtcccant	360
gcatgctggg	actgtttctt	ggcttcntct	tggtgata	cgccattgaa	atacctgcgg	420
ccatctgggg	atattccact	ncgatnatgt	gattaaggaa	ntccacggag	ttttacaagg	480
acacgtacaa	cnacctgaaa	accnnggatg	anccccaccg	ggaancnctg	aangccatcc	540
actatgcgtt	gaactgcaat	ggtttggtg	gggnccttga	acaattta	cncatacatc	600
tggccccann	aaaggacntn	ctcgannct	tcnccgtgna	attcngttct	gatnccatca	660
cagaaqtctc	gaacaatcc					679

```
<210> 15
<211> 695
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 105, 172, 176, 179, 189, 203, 212, 219, 221, 229, 231, 238,
242, 261, 266, 270, 278, 285, 286, 298, 311, 324, 337, 350,
363, 384, 391, 395, 405, 411, 424, 427, 443, 448, 453, 455,
458, 463, 467, 470, 479, 482, 484, 493, 499, 505, 518
<223> n = A,T,C or G
```

```
<221> misc_feature
<222> 520, 523, 531, 540, 584, 595, 597, 609, 611, 626, 628, 651,
652, 657, 661, 665, 669, 672, 681, 683, 691, 693
<223> n = A,T,C or G
```

```
<400> 15
actagtggat aaaggccagg gatgctgctc aacctcctac catgtacagg gacgtctccc 60
cattacaact acccaatccg aagtgtcaac tgtgtcagga ctaanaaacc ctggttttga 120
```

```

ttaaaaaagg gcctgaaaaa aggggagcca caaatctgtc tgcttcctca cnttantcnt 180
tggcaaatna gcattctgtc tcnttggctg cngcctcanc ncaaaaaanc ngaactcnat 240
cnggccagcagg aatacatctc ncaatnaacn aaattganca aggcnnntggg aaatgccnga 300
tgggattatc ntccgcttgt tganccttcta agtttctnttc ccttcattcn accctgccag 360
ccnagtttctg ttagaaaaat gccngaattc naacnccggt tttctntactc ngaattttaga 420
tctncanaaa cttcctggcc acnattcnaa ttnanggnca cgnacanatn ccttccatna 480
anencacccc acnttttgana gccangacaa tgactgcntn aantgaaggc ntgaaggaan 540
aacttttgaaa ggaaaaaaa ctttggtttcc ggcccccttcc aacncttctg tgttnancac 600
tgccttctng naaccctgga agcccnngna cagtgttaca tgttgttcta nnaaacngac 660
ncttnaatnt cnatcttccc nanaacgatt ncnc 695

```

```

<210> 16
<211> 669
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 299, 354, 483, 555, 571, 573, 577, 642, 651, 662, 667
<223> n = A,T,C or G

```

```

<400> 16
cgccgaagca gcagcgcagg ttgtccccgt ttccccctccc ccttcccttc tccggttgcc 60
ttcccgggcc ccttacactc cacagtcccg gtcccgccat gtcccagaaa caagaagaag 120
agaaccctgc ggaggagacc ggcgaggaga agcaggacac gcaggagaaa gaaggatttc 180
tgcctgagag agctgaagag gcaaagctaa aggccaaata cccaagccta ggacaaaagc 240
ctggaggctc cgacttcctc atgaagagac tccagaaagg gcaaaagtac tttgactcng 300
gagactacaa catggccaaa gccaacatga agaataagca gctgccaaagt gcangaccag 360
acaagaacct ggtgactggt gatcacatcc ccaccccaca ggatctgccc agagaaagtc 420
ctcgtctcgtc accagcaagc ttgcgggtgg ccaagttgaa tgatgctgcc ggggctctgc 480
canatctgag acgtttccct ccctgccccca cccgggtcct gtgctggctc ctgcccttcc 540
tgcttttgca gccangggtc aggaagtggc ncnggtngtg gctggaaagc aaaacccttt 600
cctgttggtg tcccacccat ggagcccctg gggcgagccc angaacttga ncctttttgt 660
tntcttncc 669

```

```

<210> 17
<211> 697
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 33, 48, 50, 55, 59, 60, 76, 77, 78, 90, 113, 118, 130, 135,
141, 143, 150, 156, 166, 167, 170, 172, 180, 181, 190, 192,
194, 199, 201, 209, 212, 224, 225, 226, 230, 233, 234, 236,
242, 244, 251, 253, 256, 268, 297, 305, 308, 311, 314
<223> n = A,T,C or G

```

```

<221> misc_feature
<222> 315, 317, 322, 324, 327, 333, 337, 343, 362, 364, 367, 368,
373, 384, 388, 394, 406, 411, 413, 423, 429, 438, 449, 450,
473, 476, 479, 489, 491, 494, 499, 505, 507, 508, 522, 523,
527, 530, 533, 535, 538, 539, 545, 548, 550, 552, 555
<223> n = A,T,C or G

```

```
<220>  
<221> misc_feature  
<222> 506
```

<400> 19

```
<210> 20
<211> 449
<212> DNA
<213> Homo sapiens
```

<400> 20

actagtaaac	aacagcagca	gaaacatcag	tatcagcagc	gtcgccagca	ggagaatatg	60
cagcgccaga	gccgaggaga	acccccgctc	cctgaggagg	acctgtccaa	actcttcaaa	120
ccaccacagc	cgcttgccag	gatggactcg	ctgctcattg	caggccagat	aaacacttac	180
tgccagaaca	tcaaggagtt	cactgcccaa	aacttaggca	agctcttcat	ggcccagggt	240
cttcaagaat	acaacaacta	agaaaaggaa	gtttccagaa	aagaagttaa	catgaactct	300
tgaagtcaca	ccagggcaac	tcttggaaga	aatatatattg	catattgaaa	agcacagagg	360
atttcttttag	tgtcattgcc	gattttggct	ataacagtgt	ctttctagcc	ataataaaat	420
aaaacaaaaat	cttgactgct	tgctcaaaa				449

```
<210> 21
<211> 409
<212> DNA
<213> Homo sapiens
```

<400> 21

tatcaatcaa	ctggtgaata	attaaacaat	gtgtggtgtg	atcatacaaa	gggtaccact	60
caatgataaa	aggaacaagc	tgcctatatg	tggaacaaca	tggatgcatt	tcagaaactt	120
tatgttgagt	gaaagaacaa	acacggagaa	catactatgt	ggttctcttt	atgtaacatt	180
acagaaataa	aaacagaggc	aaccaccttt	gaggcagtat	ggagtgagat	agactggaaa	240
aaggaaggaa	ggaaactcta	cgctgatgga	aatgtctgtg	tcttcatttg	gtggtagtta	300
tgtggggata	tacatttgtc	aaaattttatt	gaactatata	ctaaagaact	ctgcatttta	360
ttgggatgta	aataatacct	caattaaaaa	gacaaaaaaa	aaaaaaaaa		409

```
<210> 22
<211> 649
<212> DNA
<213> Homo sapiens
```

 $\langle 220 \rangle$

<221> misc feature

$\langle 222 \rangle$ 263, $\bar{3}53$, 610, 635, 646

 $\langle 223 \rangle \quad n = A, T, C \text{ or } G$

$\langle 210 \rangle$	25
$\langle 211 \rangle$	656

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 330, 342, 418, 548, 579, 608
<223> n = A,T,C or G

<400> 25
tgcaagtacc acacactggt tgaattttgc acaaaaagtg actgtaggat caggtgatag 60
ccccggaatg tacagtgtct tgggtgcacca agatgccttc taaaggctga cataccttgg 120
accctaattg ggcagagagt atagccctag cccagtgggtg acatgaccac tccctttggg 180
aggcctgagg tagaggggag tgggtatgtgt tttctcagtg gaagcagcac atgagtgggt 240
gacaggatgt tagataaagg ctctagttag ggtgtcattg tcatttgaga gactgacaca 300
ctcctagcag ctggtaaagg ggtgctggan gccatggagg anctctagaa acattagcat 360
gggctgatct gattacttcc tggcatcccg ctcactttta tgggaagtct tattagangg 420
atgggacagt tttccatata cttgctgtgg agctctggaa cactctctaa atttccctct 480
attaaaaatc actgccctaa ctacacttcc tccttgaagg aatagaaatg gaactttctc 540
tgacatantt cttggcatgg ggagccagcc acaaatgana atctgaacgt gtccagggtt 600
ctcctganac tcactctacat agaattgggt aaaccctccc ttggaataag gaaaaa 656

<210> 26
<211> 434
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 395
<223> n = A,T,C or G

<400> 26
actagttcag actgccacgc caaccccaga aaatacccca catgccagaa aagtgaagtc 60
ctagggtgtt ccatctatgt ttcaatctgt ccatctacca ggcctcgcga taaaaacaaa 120
acaaaaaaac gctgccaggt tttagaagca gttctgggtc caaaaccatc aggatcctgc 180
caccagggtt cttttgaaat agtaccacat gtaaaaggga atttggcttt cacttcatct 240
aataactgaa ttgtcaggct ttgattgata attgtagaaa taagtagcct tctgttgtgg 300
gaataagtta taatcagtat tcactctctt gttttttgtc actcttttct ctctaattgt 360
gtcattttgta ctgtttgaaa aatattttct ctatnaaatt aaactaacct gccttaaaaa 420
aaaaaaaaaa aaaa 434

<210> 27
<211> 654
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 505, 533, 563, 592, 613, 635, 638
<223> n = A,T,C or G

<400> 27
actagtccaa cacagtcaga aacattgttt tgaatcctct gtaaaccaag gcattaatct 60
taataaacca ggatccattt aggtaccact tgatataaaa aggatatcca taatgaatat 120

```
<210> 28
<211> 670
<212> DNA
<213> Homo sapiens
```

<400> 28						
cgtgtgcaca	tactgggagg	atttccacag	ctgcacggtc	acagccctta	cggattgcca	60
ggaaggggcg	aaagatatgt	gggataaact	gagaaaagaa	nccaaaaacc	tcaacatcca	120
aggcagctta	ttcgaactct	gcggcagcgg	caacggggcg	gcgggggtccc	tgctcccggc	180
gttcccgggtg	ctcctggtgt	ctctctcggc	agcttttagcg	acctgncttt	ccttctgagc	240
gtggggccag	ctccccccgc	ggcgcccacc	cacnctcact	ccatgctccc	ggaaatcgag	300
aggaagatca	ttagttcttt	ggggacgttn	gtgattctct	gtgatgctga	aaaacactca	360
tatagggaat	gtgggaaatc	ctganctctt	tnttatntcg	tntgatttct	tgtgttttat	420
ttgccaaaat	gttaccaatc	agtgaccaac	cnagcacagc	caaaaatcgg	acntcngctt	480
tagtccgtct	tcacacacag	aataagaaaa	cggcaaacc	acccacttt	tnantttnat	540
tattactaan	ttttttctgt	tgggcaaaag	aatctcagga	acngccctgg	ggccnccgta	600
ctanagttaa	ccnagctagt	tncatgaaaa	atgatgggct	ccnctcaat	gggaaagcca	660
agaaaaagnc						670

```
<220>  
<221> misc_feature  
<222> 336, 474, 504, 511, 522, 523, 524, 540, 547  
<223> n = A,T,C or G
```

<400> 29						
actagtccctc	cacagcctgt	gaatccccct	agacctttca	agcatagtga	gcggagaaga	60
agatctcagc	gttttagccac	cttaccatg	cctgatgatt	ctgtagaaaa	ggtttcttct	120
ccctctccag	ccactgatgg	gaaagtattc	tccatcagtt	ctcaaaatca	gcaagaatct	180
tcagtaccag	aggtgcctga	tgttgacat	ttgccacttg	agaagctggg	accctgtctc	240
cctcttgact	taagtcgtgg	ttcagaagtt	acagcaccgg	tagcctcaga	ttcctcttac	300
cgtaatgaat	gtcccagggc	agaaaaagag	gatacncaga	tgcttccaaa	tccttcttcc	360
aaagcaatag	ctgatgggaa	gaggagctcc	agcagcagca	ggaatatcga	aaacagaaaa	420
aaaagtga	ttgggaagac	aaaagctcaa	cagcatttgg	taaggagaaa	aganaagatg	480

aggaaggaag agagaagaga gacnaagatc nctacggacc gnnncggaag aagaagaagn 540
 aaaaaanaaa a 551

<210> 30
 <211> 684
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 545, 570, 606, 657, 684
 <223> n = A,T,C or G

<400> 30
 actagttcta tctggaaaaa gcccgggttg gaagaagctg tggagagtgc gtgtgcaatg 60
 cgagactcat ttcttggaag catccctggc aaaaatgcag ctgagtacaa ggttatcact 120
 gtgatagaac ctggactgct ttttgagata atagagatgc tgcagtctga agagacttcc 180
 agcacctctc agttgaatga attaatgatg gcttctgagt caactttact ggctcaggaa 240
 ccacgagaga tgactgcaga tgtaatcgag cttaaaggga aattcctcat caacttagaa 300
 ggtggtgata ttcgtgaaga gtcttcctat aaagtaattg tcatgccgac tacgaaagaa 360
 aaatgcccc gttgttgga gtatacagcg ggagtcttca gatacactgt gtcctcgatg 420
 tgcagaagtt gtcagtggga aaatagtatt aacagctcac tcgagcaaga accctcctga 480
 cagtactggg ctagaagttt ggatggatta tttacaatat aggaaagaaa gccaaagaatt 540
 aggtnatgag tggatgagta aatgggtgga gatggggaat tcaaatacaga attatggaag 600
 aagttnttcc tgttactata gaaaggaatt atgtttatatt acatgcagaa aatatanatg 660
 tgtggtgtgt accgtggatg gaan 684

<210> 31
 <211> 654
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 326, 582, 651
 <223> n = A,T,C or G

<400> 31
 gcgcagaaaa ggaaccaata tttcagaaac aagcttaata ggaacagctg cctgtacatc 60
 aacatcttct cagaatgacc cagaagttat catcgtggga gctggcgtgc ttggctctgc 120
 tttggcagct gtgctttcca gagatggaag aaaggtgaca gtcattgaga gagacttaaa 180
 agagcctgac agaatagttg gagaattcct gcagccgggt ggttatcatg ttctcaaaga 240
 ccttggtctt ggagatacag tggaagggtc tgatgccag gttgtaaatg gttacatgat 300
 tcatgatcag ggaaagcaaa tcagangttc agattcctta ccctctgtca gaaaacaatc 360
 aagtgcagag tggaagagct ttccatcacg gaagattcat catgagtctc cggaaagcag 420
 ctatggcaga gcccaatgca aagtttattg aaggtgttgt gttacagtta ttagaggaag 480
 atgatgttgt gatgggagtt cagtacaagg ataaagagac tgggagatat caaggaactc 540
 catgctccac tgactgttgt tgcagatggg cttttctcca anttcaggaa aagcctggtc 600
 tcaataaagt ttctgtatca ctcatttggt tggcttctta tgaagaatgc nccc 654

<210> 32
 <211> 673
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 376, 545, 627
 <223> n = A,T,C or G

<400> 32
 actagtgaag aaaaagaaat tctgatacgg gacaaaaaatg ctcttcaaaa catcattctt 60
 tatcacctga caccaggagt ttctattgga aaaggatttg aacctgggtg tactaacatt 120
 ttaaagacca cacaaggaag caaatcttt ctgaaagaag taaatgatac acttctgggtg 180
 aatgaattga aatcaaaaaga atctgacatc atgacaacaa atgggtgtaat tcatgttgta 240
 gataaactcc tctatccagc agacacacct gttggaaatg atcaactgct ggaaatactt 300
 aataaattaa tcaaatacat ccaaattaag ttgttctgtg gtagcacctt caaagaaatc 360
 cccgtgactg tctatnagcc aattattaaa aaatacacca aaatcattga tgggagtgcc 420
 tgtgggaaat aactgaaaaa gagaccgaga agaacgaatc attacagggtc ctgaaataaa 480
 atacctagga ttcttactgg aggtggagaa acagaagaac tctgaagaaa ttgttacaag 540
 aagangtccc aaggtcacca aattcattga aggtgggtgat ggtctttatt tgaagatgaa 600
 gaaattaaaa gacgcttcag ggagacnccc catgaaggaa ttgccagcca caaaaaaatt 660
 cagggattag aaa 673

<210> 33
 <211> 673
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 325, 419, 452, 532, 538, 542, 571, 600, 616, 651, 653, 672
 <223> n = A,T,C or G

<400> 33
 actagttatt tactttcttc cgcttcagaa gggtttttcag actgagagcc taagcatact 60
 ggatctgttg ttcttttttg gtctcacctc atcagtgtgc atagtggcag aaattataaa 120
 gaaggttgaa aggagcaggg aaaagatcca gaagcatggt agttcgacat catcatcttt 180
 tcttgaagta tgatgcatat tgcattattt tatttgcaaa ctaggaattg cagtctgagg 240
 atcatthaga agggcaagtt caagaggata tgaagatttg agaacttttt aactattcat 300
 tgactaaaaa tgaacattaa tgttnaagac ttaagacttt aacctgctgg cagtcccaaa 360
 tgaaattatg caactttgat atcatattcc ttgattttaa ttgggctttt gtgattgant 420
 gaaactttat aaagcatatg gtcagttatt tnattaaaaa ggcaaacctt gaaccacctt 480
 ctgcacttaa agaagtctaa cagtacaaat acctatctat cttagatgga tntatttntt 540
 tntattttta aatattgtac tatttatggg nggtggggct ttcttactaa tacacaaatn 600
 aatttatcat ttcaanggca ttctatttgg gtttagaagt tgattccaag nantgcatat 660
 ttcgctactg tnt 673

<210> 34
 <211> 684
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 414, 472, 480, 490, 503, 507, 508, 513, 523, 574, 575, 598,
 659, 662, 675
 <223> n = A,T,C or G

<400> 34
 actagtttat tcaagaaaag aacttactga ttcctctggt cctaaagcaa gagtggcagg 60
 tgatcagggc tgggtgtagca tccggttcct ttagtgcagc taactgcatt tgtcactgat 120
 gaccaaggag gaaatcacta agacatttga gaagcagtgg tatgaacggt cttggacaag 180
 ccacagttct gagccttaac cctgtagttt gcacacaaga acgagctcca cctccccttc 240
 ttcaggagga atctgtgctg atagattggc tggacttttc aatgggttctg gggtgcaagt 300
 gggcactggt atggctgggt atggagcgga cagccccagg aatcagagcc tcagcccggc 360
 tgcctgggtg gaaggtacag gtgttcagca ccttcggaaa aagggcataa agtngtgggg 420
 gacaattctc agtccaagaa gaatgcattg accattgctg gctatttgct tncctagtan 480
 gaattggatn catttttgac cangatnntt ctncatgct tnttgcaat gaaatcaa 540
 cccgcattat ctacaagtgg tatgaagtcc tgcnncccc agagaggctg ttcaggcnat 600
 gtcttccaag ggcagggtgg gttacaccat tttacctccc ctctcccccc agattatgna 660
 cncagaagga atttntttcc tccc 684

<210> 35
 <211> 614
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 17, 20, 152, 223, 267, 287, 304, 306, 316, 319, 321, 355,
 365, 382, 391, 407, 419, 428, 434, 464, 467, 477, 480, 495,
 499, 505, 515, 516, 522, 524, 527, 542, 547, 549, 567, 572,
 576, 578
 <223> n = A,T,C or G

<400> 35
 actagtccaa cgcgttngcn aatattcccc tggtagccta cttccttacc cccgaatatt 60
 ggtaagatcg agcaatggct tcaggacatg ggttctcttc tcctgtgatc attcaagtgc 120
 tcaactgcatg aagactggct tgtctcagtg tntcaacctc accagggtg tctcttggtc 180
 cacacctcgc tccctgttag tgccgtatga cagcccccat canatgacct tggccaagtc 240
 acggtttctc tgtgggtcaat gttggtnggc tgattggtgg aaagtanggt ggaccaaagg 300
 aagncncgtg agcagncanc nccagttctg caccagcagc gcctccgtcc tactnggggtg 360
 ttccngtttc tcctggccct gngtgggcta nggcctgatt cgggaanatg cctttgcang 420
 gaaggganga taantgggat ctaccaattg attctggcaa aacnatntct aagattnttn 480
 tgctttatgt ggganacana tctantctc atttnttgct gnanatnaca ccctactcgt 540
 gntcgancnc gtcttcgatt ttcgganaca cnccantnaa tactggcggt ctgttggtta 600
 aaaaaaaaaa aaaa 614

<210> 36
 <211> 686
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 222, 224, 237, 264, 285, 548, 551, 628, 643, 645, 665, 674
 <223> n = A,T,C or G

<400> 36
 gtggctggcc cgtttctccg cttctcccca tcccctactt tcctccctcc ctccctttcc 60
 ctccctcgtc gactgttgct tgctggctgc agactccctg accctccct caccctccc 120

```

taacctcggt gccaccggat tgccttctt ttctgttgcc ccagcccagc cctagtgtca 180
gggcgggggc ctggagcagc ccgaggcact gcagcagaag ananaaaaga cacgacnaac 240
ctcagctcgc cagtccggtc gctngcttcc cgccgcatgg caatnagaca gacgccgctc 300
acctgctctg ggcacacgcg acccgtgggt gatttggcct tcagtggcat cacccttatg 360
ggtatttctt aatcagcgcg tgcaaagatg gttaacctat gctacgccag ggagatacag 420
gagactggat tggaacattt ttgggggtcta aagggtctgt tgggggtgcaa cactgaataa 480
ggatgccacc aaagcagcta cagcagctgc agatttcaca gcccagtggt gggatgctgt 540
ctcagganat naattgataa cctggctcat aacacattgt caagaatgtg gatttcccca 600
ggatattatt atttgtttac cggggganag gataactgtt tcnctattt taattgaaca 660
aactnaaaca aanctaagg aaatcc 686

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<210> 37
<211> 681
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 7, 10, 11, 19, 25, 32, 46, 53, 77, 93, 101, 103, 109, 115,
123, 128, 139, 157, 175, 180, 192, 193, 194, 212, 218, 226,
227, 233, 240, 241, 259, 260, 267, 289, 296, 297, 298, 312,
313, 314, 320, 325, 330, 337, 345, 346, 352, 353, 356
<223> n = A,T,C or G

```

```

<221> misc_feature
<222> 382, 385, 400, 427, 481, 484, 485, 491, 505, 515, 533, 542,
544, 554, 557, 560, 561, 564, 575, 583, 589, 595, 607, 619,
628, 634, 641, 645, 658, 670
<223> n = A,T,C or G

```

```

<400> 37
gagacanacn naacgtcang agaanaaaag angcatggaa cacaanccag gcncgatggc 60
caccttccca ccagcancca gcgcccccca gngccccca ngncggang accangactc 120
cancctgnat caatctganc tctattcctg gcccatncct acctcggagg tggangccgn 180
aaaggctgca cnncagaga agctgctgcc ancaccancc gcccnnccc tgncgggctn 240
nataggaaac tggtagacnn gctgcanaat tcatacagga gcacgcgang ggcacnnnct 300
cacactgagt tnnngatgan gcctnaccan ggacctnccc cagcnnattg annacnggac 360
tgcgaggagg ggaagacccc gnacnggatc ctggccggcn tgccaccccc ccaccctag 420
gattatnccc cttgactgag tctctgaggg gctacccgaa cccgcctcca ttccctacca 480
natnntgctc natcgggact gacangctgg ggatnggagg ggctatcccc cancatecccc 540
tnanaccaac agcnacngan natnggggct ccccnngggtc ggngcaacnc tectncaccc 600
cggcgcnggc cttegggtgnt gtcctcctc aacnaattcc naaanggcgg gccccccngt 660
ggactcctcn ttgttccctc c 681

```

```

<210> 38
<211> 687
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 3, 30, 132, 151, 203, 226, 228, 233, 252, 264, 279, 306,
308, 320, 340, 347, 380, 407, 429, 437, 440, 445, 448, 491,
559, 567, 586, 589, 593, 596, 603, 605, 606, 609, 626, 639,

```

$\langle 223 \rangle \quad n = A, T, C \text{ or } G$

actagtagtc	agttgggagt	ggttgctata	ccttgacttc	atttatatga	atttccactt	60
tattaaataa	tagaaaagaa	aatcccgggtg	cttgacagtag	agttatagga	cattctatgc	120
ttacagaaaa	tatagccatg	attgaaatca	aatagtaaag	gctgttctgg	ctttttatct	180
tcttagctca	tcttaaataa	gtagtacact	tgggatgcag	tgcgtctgaa	gtgctaataca	240
gttgtaacaa	tagcacaaat	cgaacttagg	atgtgtttct	tctcttctgt	gtttcgattt	300
tgatcaattc	tttaattttg	ggaacctata	atacagtttt	cctattcttg	gagataaaaa	360
ttaaatggat	cactgatatt	taagtcattc	tgccttctcat	ctnaatatte	catattctgt	420
attagganaa	antacctccc	agcacagccc	cctctcaaac	cccacccaaa	accaagcatt	480
tggaatgagt	ctccttttatt	tccgaantgt	ggatggtata	acccatatcn	ctccaatttc	540
tgnttgggtt	gggtattaat	ttgaactgtg	catgaaaagn	ggnaatcttt	nctttgggtc	600
aaantttnc	ggttaatttg	nctngncaaa	tccaatttnc	tttaaggggtg	tctttataaa	660
atttgctatt	cnqg					674

<213> Homo sapiens

<223> n = A, T, C or G

gaaacatgca	agtaccacac	actgtttgaa	ttttgcacaa	aaagtgactg	tagggatcag	60
gtgatagccc	cggaatgtac	agtgtcttgg	tgcaccaaga	tgccttctaa	aggctgacat	120
accttgggac	cctaattggg	cagagagtat	agccctagcc	cagtggtgac	atgaccactc	180
cctttgggag	gctgaagtta	aagggaatgg	tatgtgtttt	ctcatggaag	cagcacatga	240
atnggtnaca	ngatgttaaa	ntaaggntct	antttgggtg	tcttgtcatt	tgaaaaantg	300
acacactcct	ancanctggg	aaagggggtgc	tggaagccat	ggaagaactc	taaaaacatt	360
agcatgggct	gatctgatta	cttcttgcca	tcccgcctcac	ttttatggga	agtcttatta	420
naaggatggg	ananttttcc	atatccttgc	tgttggaact	ctggaacact	ctctaaattt	480
ccctctatta	aaaatcactg	nccttactac	acttcctcct	tganggaata	gaaatggacc	540
tttctctgac	ttagttcttg	gcatggganc	cagcccaa	taaaatctga	cttntccggg	600
ttctccnqaa	ctcacctact	tgaattggta	aaacctcctt	tggaattagn	aaaaacc	657

<213> Homo sapiens

 $\langle 223 \rangle$ n = A, T, C or G

actagtgtctg	aggaatgtaa	acaagtttgc	tgggccttgc	gagacttcac	caggttgttt	60
cgatagctca	cactcctgca	ctgtgcctgt	caccagga	tgtctttttt	aattagaaga	120
caggaagaaa	acaaaaacca	gactgtgtcc	cacaatcaga	aacctcgtt	gtggcagang	180
ggccttcacc	gccaccaggg	tgtcccgcc	gacagggaga	gactccagcc	ttctgaggcc	240
atcctgaaga	attcctgttt	gggggttgtg	aaggaaaatc	accggtattt	aaaaagatgc	300

```
<210> 43
<211> 279
<212> DNA
<213> Homo sapiens
```

```
<210> 44
<211> 449
<212> DNA
<213> Homo sapiens
```

<400> 44						
actagtagca	tctttttctac	aacgttaaaa	ttgcagaagt	agcttatcat	taaaaaaca	60
caacaacaac	aataacaata	aatcctaagt	gtaaatcagt	tattctaccc	cctaccaagg	120
atatcagcct	gtttttttccc	tttttttctcc	tgggaataat	tgtggggcttc	ttcccaaatt	180
tctacagcct	ctttcctctt	ctcatgcttg	agcttccctg	tttgcacgca	tgcgtttgtgc	240
aagantgggc	tgtttngctt	ggantncggt	ccnagtggaa	ncatgctttc	ccttgttact	300
gttggaagaa	actcaaacct	tcnanccta	ggtgttncca	ttttgtcaag	tcatcactgt	360
atttttgtac	tggcattaac	aaaaaaagaa	atnaaatatt	gttccattaa	actttaataa	420
aactttaaaa	gggaaaaaaa	aaaaaaaaa				449

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<220>  
<221> misc_feature  
<222> 263  
<223> n = A,T,C or G
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<400>	45						
actagtgtgg	gggaatcacg	gacacttaaa	gtcaatctgc	gaaataattc	ttttattaca	60	
cactcactga	agttttttgag	tcccagagag	ccattctatg	tcaaacattc	caagtactct	120	
ttgagagccc	agcattacat	caacatgccc	gtgcagttca	aaccgaagtc	cgcaggcaaa	180	
tttgaagctt	tgcttgtcat	tcaaacagat	gaaggcaaga	gtattgctat	tcgactaatt	240	
ggtgaagctc	ttggaaaaaa	ttnactagaa	tactttttgt	gttaagttaa	ttacataagt	300	
tgtattttgt	taactttatc	tttctacact	acaattatgc	ttttgtatat	atattttgta	360	
tgatggatat	ctataattgt	agattttggt	tttacaagct	aatactgaag	actcgactga	420	
aatattatgt	atctagccca	tagtattgta	cttaactttt	acagggtgaa	aaaaaaattc	480	

tgtgttttgca ttgattatga tattctgaat aaatatggga atatatattta atgtgggtaa 540
 aaaaaaaaaa aaaaaggaa 559

<210> 46
 <211> 731
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 270, 467, 477, 502, 635, 660, 671, 688, 695, 697, 725
 <223> n = A,T,C or G

<400> 46
 actagttcta gtacatggc tgtcatagat gcaaccatta tattccattt agtttcttcc 60
 tcaggttccc taacaattgt ttgaaactga atatatatgt ttatgtatgt gtgtgtgttc 120
 actgtcatgt atatggtgta tatgggatgt gtgcagtttt cagttatata tatattcata 180
 tatacatatg catatatatg tataatatat atatatatcat gcatacactt gtataatata 240
 catatatata cacatatatg cacacatatn atcactgagt tccaaagtga gtcttttattt 300
 ggggcaattg tattctctcc ctctgtctgc tcaactgggc tttgcaagac atagcaattg 360
 cttgatttcc tttggataag agtcttatct tcggcactct tgactctagc ctttaacttta 420
 gatttctatt ccagaatacc tctcatatct atcttaaaac ctaaganggg taaagangtc 480
 ataagattgt agtatgaaag antttgctta gttaaattat atctcaggaa actcattcat 540
 ctacaaatta aattgtaaaa tgatggtttg ttgtatctga aaaaatgttt agaacaagaa 600
 atgtaactgg gtacctgtta tatcaaagaa cctcnattta ttaagtctcc tcatagccan 660
 atccttatat ngccctctct gacctgantt aatananact tgaataatga atagttaatt 720
 taggnnttggg c 731

<210> 47
 <211> 640
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 28, 106, 153, 158, 173, 176, 182, 189, 205, 210, 214,
 225, 226, 229, 237, 260, 263, 269, 277, 281, 282, 322, 337,
 338, 354, 365, 428, 441, 443, 456, 467, 476, 484, 503, 508,
 554, 567, 575, 579, 588, 601, 606, 609, 611, 621, 636
 <223> n = A,T,C or G

<400> 47
 tgcgngccgg tttggccctt ctttgtanga cactttcatc cgccctgaaa tcttcccgat 60
 cgttaataac tcctcaggtc cctgcctgca cagggttttt tcttantttg ttgcctaaca 120
 gtacaccaaa tgtgacatcc tttcaccaat atngattnct tcataccaca tcntcnatgg 180
 anacgactnc aacaattttt tgatnaccn aaanactggg ggctnnaana agtacantct 240
 ggagcagcat ggacctgtcn gcnactaang gaacaanagt nntgaacatt tacacaacct 300
 ttggtatgtc ttactgaaag anagaaacat gcttctncc ctagaccacg aggncaaccg 360
 caganattgc caatgccaaag tccgagcggg tagatcaggg aatacattcc atggatgcat 420
 tacatacntt gtccccgaaa nanaagatgc cctaanggct tcttcanact gggtcngaaa 480
 acanctacac ctgggtgcttg ganaacanac tctttggaag atcatctggc acaagttccc 540
 cccagtgggt tttnccttgg cacctanctt accanactna ttcggaancc attctttgcc 600
 ntggcnttnt nttgggacca ntcttctcac aactgnaccc 640

<400> 50						
ttgcgctttg	atTTTTTTtag	ggcttgtgcc	ctgtttcact	tataggggtct	agaatgcttg	60
tgttgagtaa	aaaggagatg	cccaatatc	aaagctgcta	aatgttctct	ttgccataaa	120
gactccgtgt	aactgtgtga	acacttgga	tttttctcct	ctgtcccagag	gtcgtcgtct	180
gctttctttt	ttgggttctt	tctagaagat	tgagaaatgc	atatgacagg	ctgagancac	240
ctccccaaac	acacaagctc	tcagccacan	gcagcttctc	cacagcccca	gcttcgcaca	300
ggctcctgga	nggctgcctg	ggggaggcag	acatgggagt	gccaagggtgg	ccagatggtt	360
ccaggactac	aatgtcttta	tttttaactg	tttgccactg	ctgccctcac	ccctgcccg	420

```
<210> 51
<211> 545
<212> DNA
<213> Homo sapiens
```

<400> 51							
tggcgtgcaa	ccagggtagc	tgaagtttgg	gtctgggact	ggagattggc	cattaggcct	60	
cctganattc	cagctccctt	ccaccaagcc	cagtcttgct	acgtggcaca	gggcaaacct	120	
gactcccttt	gggcctcagt	ttccctccc	cttcatgana	tgaaaagaat	actacttttt	180	
cttgttggtc	taacnttgct	ggacncaaag	tgtngtcatt	attgttgtat	tgggtgatgt	240	
gtncaaaact	gcagaagctc	actgcctatg	agaggaanta	agagagatag	tggatganag	300	
ggacanaagg	agtcattatt	tggtatagat	ccaccctcc	caacctttct	ctcctcagtc	360	
cctgcncctc	atgtntctgg	tntgggtgagt	cctttgtgcc	accanccatc	atgcttttgca	420	
ttgctgccat	cctgggaagg	gggtgnatcg	tctcacaact	tgttgatcatc	gtttganatg	480	
catgctttct	tnatnaaaca	aaaaannaa	tgtttgacag	ngtttaaaat	aaaaaanaaa	540	
caaaa						545	

```
<210> 52
<211> 678
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 98, 119, 121, 131, 136, 139, 140, 142, 143, 163, 168, 172,
176, 184, 189, 190, 191, 200, 201, 205, 207, 221, 223, 229,
230, 237, 240, 241, 255, 264, 266, 267, 276, 280, 288, 289,
291, 297, 301, 306, 308, 314, 315, 326, 332, 335, 337
<223> n = A,T,C or G
```

```
<221> misc_feature
<222> 339, 341, 343, 344, 345, 347, 350, 355, 356, 358, 362, 363,
372, 379, 395, 397, 398, 400, 403, 412, 414, 421, 423, 431,
435, 438, 439, 450, 457, 463, 467, 471, 474, 480, 483, 484,
487, 490, 491, 492, 493, 499, 500, 504, 508, 518, 536
<223> n = A,T,C or G
```

```
<221> misc_feature
<222> 538, 549, 551, 552, 554, 556, 557, 562, 563, 567, 571, 572,
576, 579, 590, 592, 595, 598, 606, 609, 613, 620, 622, 624,
626, 631, 634, 638, 641, 647, 654, 660, 661, 674
<223> n = A,T,C or G
```

<400> 52

```

actagtagaa gaactttgcc gcttttgtgc ctctcacagg cgcctaaagt cattgccatg 60
ggaggaagac gatttggggg gggagggggg gggggcangg tccgtggggc ttccctant 120
ntatctccat ntccantggn cnntgtcgcc tcttccctcg tcnctatnga anttantccc 180
tggneccenn nccctctccn nectnccct ccccccctcg ncnctccnn ctttttntan 240
ncttcccat ctcctcccc cctnanngtc ccaacnccgn cagcaatnnc ncacttctc 300
nctcncncc tccnnccgtt cttctnttct cnaentntnc ncnntnccn tgccnntnaa 360
annctctccc cnetgcaanc gattctctcc ctcnncnnan ctntccactc cntncttctc 420
nncgctect nttctcnnc ccacctctcn ccttcgnccc cantacnctc nccncccttn 480
cgnntcnttn nnntcctcnn accnccncc tcccttccnc cctcttctcc ccggtntntc 540
tctctccnc ncnncnccct cncnccntcc nngcgnccnt ttccgccccn cncnccntt 600
ccttctcnc cantccatcn cntntnccat nctnccntcc nctcacnccc gctncccccn 660
ntctctttca cacngtcc 678

```

<210> 53

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 139, 146, 215, 217, 257, 263, 289, 386, 420, 452, 457, 461, 466, 482, 486

<223> n = A,T,C or G

<400> 53

```

tgaagatcct ggtgtcgcca tgggccgccc ccccgcccgt tgttaccggt attgtaagaa 60
caagccgtac ccaaagtctc gcttctgccg aggtgtccct gatgccaaaa ttgcattttt 120
tgacctgggg cggaaaaang caaaantgga tgagtctccg ctttgtggcc acatgggtgtc 180
agatcaatat gagcagctgt cctctgaagc cctgnangct gcccgattt gtgccaataa 240
gtacatggta aaaagtngtg gcnaagatgc ttccatatcc ggggtcggnnt ccaccccttc 300
cacgtcatcc gcatcaacaa gatgttgtcc tgtgctgggg ctgacaggct cccaacaggc 360
atgcgaagtg cctttggaaa acccanggca ctgtggccag ggttcacatt gggccaattn 420
atcatgttca tccgcaccaa ctgcagaaca angaactgt naattnaagc cctgcccagg 480
gncaanttca aatttcccgg cc 502

```

<210> 54

<211> 494

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 431, 442, 445

<223> n = A,T,C or G

<400> 54

```

actagtccaa gaaaaatatg cttaatgtat attacaaagg ctttgtatat gttaacctgt 60
tttaatgcca aaagtgtgct ttgtccacaa ttcccttaag acctcttcag aaagggattt 120
gtttgcctta atgaatactg ttgggaaaaa acacagtata atgagtgaag agggcagaag 180
caagaaattt ctacatctta gcgactccaa gaagaatgag tatccacatt tagatggcac 240
attatgagga ctttaattctt tccttaaaca caataatgtt ttcttttttc ttttattcac 300
atgatttcta agtatatttt tcatgcagga cagtttttca accttgatgt acagtgactg 360
tgttaaattt ttctttcagt ggcaacctct ataactttta aaatatgggtg agcatcttgt 420

```

<400> 57						
actagtcact	actgtcttct	ccttgtagct	aatcaatcaa	tattcttccc	ttgcctgtgg	60
gcagtggaga	gtgctgctgg	gtgtacgctg	cacctgccca	ctgagttggg	gaaagaggat	120
aatcagtgag	cactgttctg	ctcagagctc	ctgatctacc	ccacccccta	ggatccagga	180
ctgggtcaaa	gctgcatgaa	accaggccct	ggcagcaacc	tgggaatggc	tggagggtggg	240
aqagaacctg	acttctcttt	ccctctccct	cctccaacat	tactggaact	ctatcctgtt	300

```
<220>  
<221> misc_feature  
<222> 209, 222, 277, 389, 398  
<223> n = A,T,C or G
```

```
<210> 61
<211> 423
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 195, 285, 295, 329, 335, 340, 347, 367, 382, 383, 391, 396,  
418  
<223> n = A,T,C or G
```

```
<210> 62
<211> 683
<212> DNA
<213> Homo sapiens
```

<400> 62						
gctggagagg	ggtacggact	ttcttggagt	tgtcccaggt	tggaatgaga	ctgaactcaa	60
gaagagaccc	taagagactg	gggaatggtt	cctgccttca	ggaaagtgaa	agacgcttag	120
gctgtcaaca	cttaaaggaa	gtccccttga	agcccagagt	ggacagacta	gaccattga	180
tgggggccact	ggccatggtc	cgtggacaag	acattccngt	gggccatggc	acaccggggg	240
ggatcaaaat	gtgtacttgt	ggggtctcgc	cccttgccaa	aaccaaacca	ntcccactcc	300
tgtcnttgga	ctttcttccc	attccctcct	ccccaaatgc	acttcccctc	ctccctctgc	360
ccctcctgtg	tttttggaa	tctgtttccc	tcaaaattgt	taatttttta	nttttngacc	420
atgaacttat	gtttggggtc	nangttcccc	ttccaatgc	ataactaatat	attaatggtt	480
atztattttt	gaaatatttt	ttaatgaact	tggaaaaaat	tnntggaatt	tccttncttc	540

```
<210> 63
<211> 731
<212> DNA
<213> Homo sapiens
```

```
<221> misc_feature
<222> 671, 678, 692, 697, 698, 699, 704, 705, 712, 714, 717, 718,
719, 723, 725, 730, 731
<223> n = A,T,C or G
```

```
<210> 64
<211> 313
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 240
<223> n = A,T,C or G
```

```
<400> 64
actagttgtg caaaccacga ctgaagaaag acgaaaagtg ggaaataact tgcaacgtct 60
gttagagatg gttgctacac atgttgggtc tgtagagaaa catcttgagg agcagattgc 120
taaagttgat agagaatatg aagaatgcat gtcagaagat ctctcggaaa atattaaaga 180
gattagagat aagtatgaga agaaagctac tctaattaag tcttctgaag aatgaagatn 240
aaatgttgat catgtatata tatccatagt gaataaaaatt gtctcagtaa agttgtaaaa 300
aaaaaaaaaa aaa 313
```

```
<220>
<221> misc_feature
<222> 419, 493, 519, 568, 605, 610
<223> n = A,T,C or G
```

```
<210> 68
<211> 551
<212> DNA
<213> Homo sapiens
```

<400>	68						
actagtagct	ggtacataat	cactgaggag	ctattttctta	acatgctttt	atagaccatg	60	
ctaattgctag	accagtat	aagggcta	ctcacacctc	cttagctgta	agagtctggc	120	
ttagaacaga	cctctctgtg	caataacttg	tggccactgg	aatccctgg	gccggcattt	180	
gtattggggg	tgcaatgact	ccaagggcc	aaaagagtta	aaggcacgac	tgggatttct	240	
tctgagactg	tgggtgaaact	ccttccaagg	ctgagggggg	cagtangtgc	tctggggagg	300	
actcggcacc	actttgat	tcaacaagcc	acttgaagcc	caattataaa	attgttattt	360	
tacagctgat	ggaactcaat	ttgaaccttc	aaaactttgt	tagtttatcc	tattatattg	420	
ttaaacctaa	ttacatttgt	ctagcattgg	atttggttcc	tgtngcatat	gtttttttcn	480	
cctatgtgct	cccctcccc	nnatcttaat	ttaaaccnca	at tt t t g c n a t	t c n c n n n n n	540	
n a n n n n a n n n a	a					551	

```
<210> 69
<211> 396
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 235, 310, 323, 381
<223> n = A,T,C or G
```

<400> 69						
cagaaatgga	aagcagagtt	ttcattttctg	tttataaacg	tctccaaaca	aaaatggaaa	60
gcagagtttt	cattaaatcc	ttttaccttt	tttttttctt	ggtaatcccc	tcaaataaca	120
gtatgtggga	tattgaatgt	taaagggata	tttttttcta	ttatttttat	aattgtacaa	180
aattaagcaa	atgttaaaaag	ttttatatgc	tttattaatg	ttttcaaaaag	gtatnataca	240
tgtgatacat	tttttaagct	tcagtttgctt	gtcttctggt	actttctggt	atgggctttt	300
ggggagccan	aaaccaatct	acnatctctt	tttgtttgcc	aggacatgca	ataaaaattta	360

aaaaataaat aaaaactatt nagaaattga aaaaaa

396

<210> 70
<211> 536
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 388, 446, 455
<223> n = A,T,C or G

<400> 70
actagtgcaa aagcaaatat aaacatcgaa aaggcggttcc tcacgtttagc tgaagatatc 60
cttcgaaaga cccctgtaaa agagcccaac agtgaaaatg tagatatcag cagtggagga 120
ggcgtgacag gctggaagag caaatgctgc tgagcattct cctgttccat cagttgccat 180
ccactacccc gttttctctt cttgctgcaa aataaaccac tctgtccatt tttaactcta 240
aacagatatt tttgtttctc atcttaacta tccaagccac ctattttatt tgttctttca 300
tctgtgactg cttgctgact ttatcataat tttcttcaaa caaaaaaatg tatagaaaaa 360
tcatgtctgt gacttcattt tttaatgnta cttgctcagc tcaactgcat ttcagttggt 420
ttatagtcca gttcttatca acattnaaac ctatngcaat catttcaaat ctattctgca 480
aattgtataa gaataaaagt tagaatttaa caattaaaaa aaaaaaaaaa aaaaaa 536

<210> 71
<211> 865
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 22, 35, 39, 56, 131, 138, 146, 183, 194, 197, 238, 269, 277,
282, 297, 316, 331, 336, 340, 341, 346, 349, 370, 376, 381,
382, 392, 396, 397, 401, 433, 444, 445, 454, 455, 469, 472,
477, 480, 482, 489, 497, 499, 511, 522, 526, 527
<223> n = A,T,C or G

<221> misc_feature
<222> 545, 553, 556, 567, 574, 580, 610, 613, 634, 638, 639, 663,
672, 689, 693, 694, 701, 704, 713, 723, 729, 732, 743, 744,
749, 761, 765, 767, 769, 772, 774, 780, 783, 788, 792, 803,
810, 824, 840, 848
<223> n = A,T,C or G

<400> 71
gacaaagcgt taggagaaga anagaggcag ggaanactnc ccaggcacga tggccncctt 60
cccaccagca accagcgccc cccaccagcc cccaggcccg gacgacgaag actccatcct 120
ggattaatct nacctctntc gcctgnccca ttcctacctc ggagggtggag gccggaaagg 180
tcncaccaag aganaanctg ctgccaacac caaccgcccc agccctggcg ggcacganag 240
gaaactggtg accaatctgc agaattctna gaggaanaag cnagggggccc cgcgctnaga 300
cagagctgga tatgangcca gaccatggac nctacnccn ncaatncana cgggactgcg 360
gaagatggan gaccncgcac nngatcaggc cngctnncca nccccccacc cctatgaatt 420
attcccgcgtg aangaatctc tgannggctt ccannaaagc gcctccccnc cnaacgnaan 480
tncaacatng ggattanang ctgggaactg naaggggcaa ancctnnaat atccccagaa 540
acaanctctc ccnaanaaac tggggcncct catnggtggn accaactatt aactaaaccg 600

```
<210> 72
<211> 560
<212> DNA
<213> Homo sapiens
```

<400> 72						
cctggacttg	tcttggttcc	agaacctgac	gacccggcga	cggcgacgtc	tcttttgact	60
aaaagacagt	gtccagtgct	ccngcctagg	agtctacggg	gaccgcctcc	cgcgccgcca	120
ccatgcccaa	cttctctggc	aactggaaaa	tcatccgatc	ggaaaacttc	gangaattgc	180
tcnaantgct	gggggtgaat	gtgatgctna	ngaanattgc	tgtggctgca	gcgtccaagc	240
cagcagtgga	gatcnaacag	gaggagagaca	ctttctacat	caaaacctcc	accaccgtgc	300
gcaccacaaa	gattaacttc	nnngttgggg	aggantttga	ggancaaact	gtggatngga	360
ngcctgtnaa	aacctggtga	aatgggagaa	tganaataaa	atggtctgtg	ancanaaact	420
cctgaaagga	gaaggccccc	anaactcctg	gaccngaaaa	actgaccenc	cnatngggga	480
actgatnctt	gaaccctgaa	cgggcgggat	ganccttttt	tnttgcencc	naangggttc	540
tttccntttc	ccccaaaaaa					560

```
<210> 73
<211> 379
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 8, 17, 18, 21, 26, 29, 30, 32, 53, 56, 67, 71, 81, 102, 104,
111, 112, 114, 119, 122, 124, 125, 134, 144, 146, 189, 190,
214, 215, 219, 220, 235, 237, 246, 280, 288, 302, 310, 313,
319, 322, 343, 353, 354
<223> n = A,T,C or G
```

<400> 73						
ctggggancc	ggcggtnngc	nccatntcnn	gncgcgaagg	tggcaataaa	aanccnctga	60
aaccgcncaa	naaacatgcc	naagatatgg	acgaggaaga	tngngctttc	nngnacaanc	120
gnanngagga	acanaacaaa	ctcnangagc	tctcaagcta	atgccgcggg	gaagggggccc	180
ttggccacnn	gtggaattaa	gaaatctggc	aaanngtann	tgttccttgt	gcctnangag	240
ataagngacc	ctttatttca	tctgtattta	aacctctctn	ttccctgnca	taacttcctt	300
tnccacgtan	agntggaant	anttgttgtc	ttggactggt	gtncatttta	gannaaactt	360
ttgtttcaaaa	aaaaaataa					379

$$\begin{array}{ll} \langle 210 \rangle & 74 \\ \langle 211 \rangle & 437 \end{array}$$

```
<220>  
<221> misc_feature  
<222> 145, 355  
<223> n = A,T,C or G
```

```
<210> 75
<211> 579
<212> DNA
<213> Homo sapiens
```

<400> 75						
ctccgtcgcc	gccaagatga	tgtgcggggc	gccctccgcc	acgcagccgg	ccaccgccga	60
gacccagcac	atcgccgacc	aggtgaggtc	ccagcttgaa	gagaaagaaa	acaagaagtt	120
ccctgtgttt	aaggccgtgt	cattcaagag	ccaggtggtc	gcggggacaa	actacttcat	180
caaggtgcac	gtcggcgacg	aggacttcgt	acacctgcga	gtgttccaat	ctctccctca	240
tgaaaacaag	cccttgacct	tatctaacta	ccagaccaac	aaagccaagc	atgatgagct	300
gacctatttc	tgatcctgac	tttggacaag	gcccttcagc	cagaagactg	acaaagtcac	360
cctccgtcta	ccagagcgtg	cacttgatga	cctaaaataa	gcttcatttc	cgggctgtgc	420
ccttgggggtg	gaagggggcan	gatctgcact	gcttttgcac	ttctcttcct	aaatttcatt	480
gtgttgattc	tttccttcca	ataggtgatc	tttattactt	tcagaatatt	ttccaaatna	540
gatatatttt	naaaatcctt	aaaaaaaaaa	aaaaaaaaaa			579

```
<220>  
<221> misc_feature  
<222> 411, 470, 476, 491, 506, 527, 560, 570, 632, 636, 643, 650,  
654, 658  
<223> n = A,T,C or G
```

```
<400> 76
gtttatccta tctctccaac cagattgtca gctccttgag ggcaagagcc acagtatatt 60
tccctgtttc ttccacagtg cctaataata ctgtggaact aggttttaat aattttttaa 120
```



```
<210> 79
<211> 456
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 89, 195, 255, 263, 266, 286, 353, 384, 423, 425, 436, 441  
<223> n = A,T,C or G
```

<400> 79						
actagtatgg	ggtgggaggc	cccacccttc	tcccctaggc	gctgttcttg	ctccaaaggg	60
ctccgtggag	agggactggc	agagctgang	ccacctgggg	ctggggatcc	cactcttctt	120
gcagctgttg	agcgcaccta	accactggtc	atgccccac	ccctgctctc	cgcaccgcgt	180
tcctcccgac	cccangacca	ggctacttct	cccctcctct	tgcctccctc	ctgccccctgc	240
tgcctctgat	cgtangaatt	gangantgtc	ccgccttggtg	gctganaatg	gacagtggca	300
ggggctggaa	atgggtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gcnccccccc	360
tgcaagaccg	agattgaggg	aaancatgtc	tgctgggtgt	gaccatgttt	cctctccata	420
aantnccct	gtgacnctca	naaaaaaaaa	aaaaaa			456

```
<210> 80
<211> 284
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 283  
<223> n = A,T,C or G
```

```
<400> 80
ctttgtacct ctagaaaaga taggtattgt gtcatgaaac ttgagtttaa attttatata 60
taaaactaaa agtaatgctc acttttagcaa cacatactaa aattggaacc atactgagaa 120
gaatagcatg acctccgtgc aaacaggaca agcaaatttg tgatgtgttg attaaaaaga 180
aataaataaa tgtgtatatg tgtaacttgt atgttttatgt ggaatacaga ttgggaaata 240
aatgtatatt cttactgtga aaaaaaaaaa aaaaaaaaaa aana 284
```

```
<210> 81
<211> 671
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 388, 505, 600, 603, 615, 642, 644, 660  
<223> n = A,T,C or G
```

```
<400> 81
gccaccaaca ttccaagcta ccctgggtac ctttgtgcag tagaagctag tgagcatgtg 60
agcaagcggg gtgcacacgg agactcatcg ttataattta ctatctgcca agagtagaaa 120
gaaaggctgg ggatatattg gttggccttg ttttgatttt ttgcttgttt gtttgttttg 180
```


<223> n = A,T,C or G

<400> 84

```

tggtggatct tggctctgtg gagctgctgg gacgggatct aaaagactat tctggaagct 60
gtgggtccaan gcatttttgc ggcttaacgg gtcccgggaa aaaggacacc agctctctaa 120
aattgaagtt taccoganat aacaatcttt tgggcagaga tgcctathtt aacaaacncc 180
gtccctgctgc aacaacnaac aatctctggg aaataccggc catgaacntg ctgtctcaat 240
cnancatctc tctagctgac cgatcatatc gtcccagatt actacanatc ataataattg 300
atttcctgta naaaaaaaaa aaa 323

```

<210> 85

<211> 771

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 63, 426, 471, 497, 521, 554, 583, 586, 606, 609, 615, 652, 686, 691, 694, 695, 706, 713, 730, 732, 743, 751

<223> n = A,T,C or G

<400> 85

```

aaactgggta ctcaacactg agcagatctg ttctttgagc taaaaacccat gtgctgtacc 60
aanagtttgc tcttggctgc tttgatgtca gtgctgctac tccacctctg cggcgaatca 120
gaagcaagca actttgactg ctgtcttgga tacacagacc gtattcttca tcctaaattt 180
attgtgggct tcacacggca gctggccaat gaaggctgtg acatcaatgc tatcatcttt 240
cacacaaaga aaaagttgtc tgtgtgctga aatccaaaac agacttgggt gaaatatatt 300
gtgcgtctcc tcagtaaaaa agtcaagaac atgtaaaaaac tgtggctttt ctggaatgga 360
attggacata gcccaagaac agaaagaact tgctgggggt ggaggtttca cttgcacatc 420
atgganggtt tagtgcttat cttatttgtg cctcctggac ttgtccaatt natgaagtta 480
atcatattgc atcatanttt gctttgttta acatcacatt naaattaaac tgtattttat 540
gttatttata gctntagggt ttctgtgttt aactttttat acnaantttc ctaaactatt 600
ttggtntant gcaanttaaa aatttatatt ggggggggaa taaatattgg antttctgca 660
gccacaagct ttttttaaaa aaccantaca nccnngtta atggtnggtc ccnaatgggt 720
tttgcttttn antagaaaat ttnttagaac natttgaaaa aaaaaaaaa a 771

```

<210> 86

<211> 628

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 162, 249, 266, 348, 407, 427, 488, 518, 545, 566, 569, 597, 598, 611, 617, 621, 624

<223> n = A,T,C or G

<400> 86

```

actagtttgc tttacatttt tgaaaagtat tatttttgtc caagtgccta tcaactaaac 60
cttgtgttag gtaagaatgg aatttattaa gtgaatcagt gtgacccttc ttgtcataag 120
attatcttaa agctgaagcc aaaatatgct tcaaaagaaa angactttat tgttcattgt 180
agttcataca ttcaaagcat ctgaactgta gtttctatag caagccaatt acatccataa 240
gtggagaang aaatagatta atgtcnaagt atgattgggt gagggagcaa ggttgaagat 300
aatctgggggt tgaaattttc tagttttcat tctgtacatt tttagttnga catcagattt 360

```

```

gaaatattaa tgtttacctt tcaatgtgtg gtatcagctg gactcantaa cacccttttc 420
ttccctnggg gatggggaat ggattattgg aaaatggaaa gaaaaaagta cttaaagcct 480
tcctttcnca gtttctggct cctaccctac tgatttancc agaataagaa aacattttat 540
catctctgc tttattccca ttaatnaant tttgatgaat aaatctgctt ttatgcnnac 600
ccaaggaatt nagtggnttc ntcnttgt 628

```

```

<210> 87
<211> 518
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 384, 421, 486
<223> n = A,T,C or G

```

```

<400> 87
ttttttatTT ttttttagaga gtagttcagc ttttatttat aaattttattg cctgttttat 60
tataacaaca ttatactggt tatggtttaa tacatatggt tcaaaatgta taatacatca 120
agtagtacag ttttaaaatt ttatgcttaa aacaagtttt gtgtaaaaaa tgcagataca 180
ttttacatgg caaatcaatt tttaagtcac cctaaaaatt gattttttttt tgaaatttaa 240
aaacacattt aattttcaatt tctctcttat ataaccttta ttactatagc atggttttcca 300
ctacagttta acaatgcagc aaaattccca tttcacggta aattggggtt taagcggcaa 360
ggttaaaatg ctttgaggat cctnaatacc ctttgaactt caaatgaagg ttatgggtgt 420
naattttaacc ctcatgccat aagcagaagc acaagtttag ctgcattttg ctctaaactg 480
taaaancgag ccccccggtg aaaaagcaaa agggaccc 518

```

```

<210> 88
<211> 1844
<212> DNA
<213> Homo sapiens

```

```

<400> 88
gagacagtga atcctagtat caaaggattt ttggcctcag aaaaagttgt tgattatTTT 60
tattttatTT tatttttcga gactccgtct caaaaaaaa aaaaaaaaaga gaatcacaa 120
ggtatttgct aaagcatttt gagctgcttg gaaaaaggga agtagttgca gtagagtttc 180
ttccatcttc ttggtgctgg gaagccatat atgtgtcttt tactcaagct aaggggtata 240
agcttatgtg ttgaatttgc tacatctata tttcacatat tctcacaata agagaatTTT 300
gaaatagaaa tatcatagaa catttaagaa agtttagtat aaataatatt ttgtgtgttt 360
taatcccttt gaagggatct atccaaagaa aatattttac actgagctcc ttcctacacg 420
tctcagtaac agatcctgtg ttagtctttg aaaatagctc atttttttaa tgtcagtgag 480
tagatgtagc atacatatga tgtataatga cgtgtattat gttaacaatg tctgcagatt 540
ttgtaggaat acaaaacatg gcctttttta taagcaaaac gggccaatga ctagaataac 600
acatagggca atctgtgaat atgtattata agcagcattc cagaaaagta gttggtgaaa 660
taattttcaa gtcaaaaagg gatatggaaa ggggaattat agtaacctct atttttttaag 720
ccttgctttt aaattaaacg ctacagccat ttaagccttg aggataataa agcttgagag 780
taataatggt aggttagcaa aggttttagat gtatcacttc atgcatgcta ccatgatagt 840
aatgcagctc ttcgagtcac ttctgggtcat tcaagatatt cacccttttg cccatagaaa 900
gcaccctacc tcacctgctt actgacattg tcttagctga tcacaagatc attatcagcc 960
tccattattc cttactgtat ataaaataca gagttttata ttttcctttc ttcgtttttc 1020
accatattca aaacctaaat ttgtttttgc agatggaatg caaagtaatc aagtgttcgt 1080
gctttcacct agaagggtgt ggtcctgaag gaaagaggtc cctaaatatc ccccacctg 1140
ggtgctcctc cttccctggt accctgacta ccagaagtca ggtgctagag cagctggaga 1200
agtgcagcag cctgtgcttc cacagatggg ggtgctgctg caacaaggct ttcaatgtgc 1260

```

```

ccatccttagg gggagaagct agatcctgtg cagcagcctg gtaagtcctg aggagggttc 1320
attgctcttc ctgctgctgt cctttgcttc tcaacggggc tcgctctaca gtctagagca 1380
catgcagcta acttgtgcct ctgcttatgc atgaggggta aattaacaac cataaccttc 1440
atgtgaagtt caaagggtgta ttcaggatcc tcaaagcatt ttaaccttgc cgcttaaaaac 1500
ccaatttacc gtgaaatggg aattttgctg cattgtttaa ctgtagtgga aaccatgcta 1560
tagtaataaa gggtatataa gagagaaatt gaaattaaat gtgtttttta atttcaaaaa 1620
aaaatcaatc tttaggatga cttaaaaaatt gatttgccat gtaaaatgta tctgcatttt 1680
ttacacaaaa cttgtttttaa gcataaaaatt ttaaaaactgt actacttgat gtattataca 1740
ttttgaacca tatgtattaa accataaaca gtataatgtt gttataataa aacaggcaat 1800
aaatttataa ataaaagctg aaaaaaaaaa aaaaaaaaaa aaaa 1844

```

```

<210> 89
<211> 523
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 288, 352, 369, 398, 475, 511, 513
<223> n = A,T,C or G

```

```

<400> 89
tttttttttt ttttttttagt caatccacat ttattgatca cttattatgt accaggcact 60
gggataaaga tgactgtagt tcactcacag taaggaagaa aactagcaaa taagacgatt 120
acaatatgat gtagaaaatg ctaagccaga gatatagaaa ggctcctattg ggctccttctg 180
tcaccttgct tttccacatc cctacccttc acaggccttc cctccagctt cctgcccccg 240
ctccccactg cagatccctt gggattttgc ctagagctaa acgagganat gggccccctg 300
gccctggcat gacttgaacc caaccacaga ctgggaaagg gagcctttcg anagtggatc 360
actttgatna gaaaacacat agggaattga agagaaantc cccaaatggc caccctgtct 420
gggtgctcaag aaaagtttgc agaattgata aatgaaggat caagggaatt aatanatgaa 480
taattgaatg gtggctcaat aagaatgact ncnttgaatg acc 523

```

```

<210> 90
<211> 604
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 563
<223> n = A,T,C or G

```

```

<400> 90
ccagtgtggt ggaatgcaaa gattaccccc gaagctttcg agaagctggg attccctgca 60
gcaaaggaaa tagccaatat gtgtcgtttc tatgaaatga agccagaccg agatgtcaat 120
ctcaccacc aactaaatcc caaagtcaaa agcttcagcc agtttatctc agagaaccag 180
gggagccttc aagggcattg agaaaatcag ctgttcagat aggctctctg accacacagc 240
ctctttcctc tctgatcctt ttcctcttta cggcacaaca ttcattgtttg acagaacatg 300
ctggaatgca attgtttgca acaccgaagg atttcctgct gtcgcctctt cagtaggaag 360
cactgcattg gtgataggac acggtaattt gattcacatt taacttgcta gttagtata 420
aggggtggtg cacctgtttg gtaaaatgag aagcctcgga aacttgggag cttctctcct 480
accactaatg gggagggcag attattactg ggatttctcc tgggggtgaat taatttcaag 540
ccctaattgc tgaaattccc ctnggcaggc tccagttttc tcaactgcat tgcaaaattc 600
cccc 604

```

<210> 91
 <211> 858
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 570, 591, 655, 664, 667, 683, 711, 759, 760, 765, 777, 787,
 792, 794, 801, 804, 809, 817, 820
 <223> n = A,T,C or G

<400> 91
 tttttttttt ttttttttta tgattattat tttttttatt gatctttaca tcctcagtgt 60
 tggcagagtt tctgatgctt aataaacatt tgttctgatc agataagtgg aaaaaattgt 120
 catttcctta ttcaagccat gcttttctgt gatattctga tcctagttga acatacagaa 180
 ataaatgtct aaaacagcac ctcgattctc gtctataaca ggactaagtt cactgtgatc 240
 ttaaataagc ttggctaaaa tgggacatga gtggaggtag tcacacttca gcgaagaaag 300
 agaatctcct gtataatctc accaggagat tcaacgaatt ccaccacact ggactagtgg 360
 atcccccggg ctgcaggaat tcgatatcaa gcttatcgat accgtcgacc tcgagggggg 420
 gcccggtacc caattcgccc tatagtgagt cgtattacgc gcgctcactg gccgtcgttt 480
 tacaacgtcg tgactgggaa aaccctggcg ttacccaact taatcgccct gcagcacatc 540
 cccctttcgc cagctggcgt aatagcgaan agcccgacc gatcgccctt ncaacagttg 600
 cgcagcctga atggcgaatg ggacgcgccc tgtagcggcg cattaaagcg cggcnggggtg 660
 tggnggntcc cccacgtgac cgntacactt ggcagcgctt tacgccggtc nttecgctttc 720
 ttcccttcct ttctcgcacc gtctcgccggg tttccccgnn agctnttaat cgggggnctc 780
 cctttanggg tncnaattaa nggnttacng gaccttngan cccaaaaact ttgattaggg 840
 ggaaggtccc cgaagggg 858

<210> 92
 <211> 585
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 317, 319, 320, 321, 325, 327, 328, 330, 331, 332, 460, 462,
 483, 485, 487, 523, 538, 566, 584
 <223> n = A,T,C or G

<400> 92
 gttgaatctc ctggtgagat tatacaggag attctctttc ttcgctgaag tgtgactacc 60
 tccactcatg tcccatthta gccaaagctta tttaagatca cagtgaactt agtcctgtta 120
 tagacgagaa tcgaggtgct gtttttagaca tttatttctg tatgttcaac taggatcaga 180
 atatcacaga aaagcatggc ttgaataagg aaatgacaat tttttccact tatctgatca 240
 gaacaaatgt ttattaagca tcagaaactc tgccaacact gaggatgtaa agatcaataa 300
 aaaaaataat aatcatnann naaanannan nngaagggcg gccgccaccg cgggtggagct 360
 ccagcttttg ttcccttttag tgaggggttaa ttgcgcgctt ggcgttaate atgggtcatag 420
 ctgtttcctg tgtgaaattg ttatccggct cacaattccn cncaacatac gagccgggaa 480
 gcntnangtg taaaagcctg ggggtgccta attgagtgag ctnactcaca ttaattgngt 540
 tgcgctccac ttgcccgtt ttccantccg ggaaacctgt tcgnc 585

<210> 93
 <211> 567

<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature

<222> 82, 158, 230, 232, 253, 266, 267, 268, 269, 270, 271, 272,
273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284,
285, 286, 287, 295, 303, 307, 314, 349, 352, 354, 356, 366,
369, 379, 382, 386, 393, 404, 427, 428, 446, 450, 452

<223> n = A,T,C or G

<221> misc_feature

<222> 453, 454, 459, 462, 480, 481, 483, 488, 493, 501, 509, 511,
512, 518, 520, 525, 526, 532, 541, 557

<223> n = A,T,C or G

<400> 93

```

cggcagtgtt gctgtctgcg tgtccacctt ggaatctggc tgaactggct gggaggacca 60
agactgcggc tgggggtgggc anggaaggga accgggggct gctgtgaagg atcttggaac 120
ttccctgtac ccaccttccc cttgcttcat gtttgtanag gaaccttggt cgggccaagc 180
ccagtttcct tgtgtgatac actaatgtat ttgctttttt tgggaaatan anaaaaatca 240
attaaattgc tantgtttct ttgaannnnn nnnnnnnnnn nnnnnnnngg ggggncgccc 300
ccncggngga aacnccccct tttgttccct ttaattgaaa ggttaattng cncncntggc 360
gttaancntt gggccaaanc tngttncccg tgntgaaatt gttnatcccc tcccaaattc 420
cccccnnc ttccaaaccc ggaaancctn annntgttna ancccggggg gttgcctaan 480
ngnaattnaa ccnaaccccc nttaaataatg nntttgcncn ccacnngccc cncctttcca 540
nttcggggaa aaccctntcc gtgoccca                               567

```

<210> 94

<211> 620

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 169, 171, 222, 472, 528, 559, 599

<223> n = A,T,C or G

<400> 94

```

actagtcaaa aatgctaaaa taatttgagg gaaaatattt tttaagtagt gttatagttt 60
catgtttatc ttttattatg ttttgtgaag ttgtgtcttt tcactaatta cctatactat 120
gccaatattt ccttataatc atccataaca ttatactac atttgtaana naatatgcac 180
gtgaaactta acactttata aggtaaaaat gaggtttcca anatttaata atctgatcaa 240
gttcttggtt tttccaaata gaatggactt ggtctgttaa gggctaagga gaagaggaag 300
ataagggtta aagttgttaa tgaccaaaac ttctaaaaga aatgcaaaaa aaaagtttat 360
tttcaagcct tcgaactatt taaggaaagc aaaatcattt cctaaatgca tatcatttgt 420
gagaatttct cattaatata ctgaatcatt catttcacta aggctcatgt tnactccgat 480
atgtctctaa gaaagtacta tttcatgggc caaacctggg tgccatantt gggtaaaggc 540
tttcccttaa gtgtgaaant atttaaaatg aaattttcct ctttttaaaa attctttana 600
agggttaagg gtgttgggga                               620

```

<210> 95

<211> 470

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 61, 67, 79, 89, 106, 213, 271, 281, 330, 354, 387, 432, 448

<223> n = A,T,C or G

<400> 95

```
ctcgaccttc tctgcacagc ggatgaaccc tgagcagctg aagaccagaa aagccactat 60
nactttntgc ttaattcang agcttacang attcttcaaa gagtgngtcc agcatccttt 120
gaaacatgag ttcttaccag cagaagcaga cctttacccc accacctcag cttcaacagc 180
agcaggtgaa acaacccatc cagcctccac ctnaggaaat atttggtccc acaaccaagg 240
agccatgcca ctcaaagggt ccacaacctg naaacacaaa nattccagag ccaggctgta 300
ccaagggtccc tgagccaggg ctgtaccaan gtccctgagc cagggtgtac caangtccct 360
gagccaggat gtaccaagggt ccctgancca gggtgtccaa ggccctgag ccaggctaca 420
ccaagggcct gngccaggca gcatcaangt ccctgaccaa ggcttatcaa 470
```

<210> 96

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 299, 311, 360, 426, 538, 540, 542, 553, 563, 565, 592, 603, 604, 618, 633, 647, 649, 651, 653

<223> n = A,T,C or G

<400> 96

```
tttttttttt tttttttttt ggaattaaaa gcaatttaat gagggcagag caggaaacat 60
gcattttcttt tcattcgaat cttcagatga accctgagca gccgaagacc agaaaagcca 120
tgaagacttt ctgcttaatt caggggctta caggattctt cagagtgtgt gtgaacaaaa 180
gcttttatagt acgtattttt aggatacaaa taagagagag actatggctt ggggtgagaa 240
tgtactgatt acaagggtcta cagacaatta agacacagaa acagatggga agagggtgnc 300
cagcatctgg nggttggctt ctcaagggtt tgtctgtgca ccaaattact tctgcttggn 360
cttctgctga gctgggcctg gagtgaccgt tgaaggacat ggctctggta cttttgtgta 420
gcctgncaca ggaacttttg tgtatccttg ctcaggaaact ttgatggcac ctggctcagg 480
aaacttgatg aagccttggt caagggacct tgatgcttgc tggctcaggg accttggnng 540
ancctgggct caggacctt tgnncnaacc ttggcttcaa gggacccttg gnacatcctg 600
gcnnagggac ccttgggncc aaccctgggc ttnagggacc ctttggntnc nanccttggc 660
```

<210> 97

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 12, 308

<223> n = A,T,C or G

<400> 97

```
gggaccatac anagtattcc tctcttcaca ccaggaccag ccactgttgc agcatgagtt 60
```

```

cccagcagca gaagcagccc tgcattccac cccctcagct tcagcagcag caggtgaaac 120
agccttgcca gcctccacct caggaaccat gcatcccca aaccaaggag ccctgccacc 180
ccaaggtgcc tgagccctgc caccaccaag tgcctgagcc ctgccagccc aaggttccag 240
agccatgcca cccaagggtg cctgagccct gcccttcaat agtcactcca gcaccagccc 300
agcagaanac caagcagaag taatgtgggt cacagccatg cccttgagga gccggccacc 360
agatgctgaa tcccctatcc cattctgtgt atgagtccca tttgccttgc aattagcatt 420
ctgtctcccc caaaaaaaaa a 441

```

```

<210> 98
<211> 600
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 295, 349, 489, 496, 583
<223> n = A,T,C or G

```

```

<400> 98
gtattcctct cttcacacca ggaccagcca ctggtgcagc atgagttccc agcagcagaa 60
gcagccctgc atcccacccc ctcagcttca gcagcagcag gtgaaacagc cttgccagcc 120
tccacctcag gaaccatgca tccccaaaac caaggagccc tgccacccca aggtgcctga 180
gccctgccac ccaaagtgc ctgagccctg ccagcccaag gttccagagc catgccaccc 240
caaggtgcct gagccctgcc cttcaatagt cactccagca ccagcccagc agaanaccaa 300
gcagaagtaa tgtgggtccac agccatgccc ttgaggagcc ggccaccana tgctgaatcc 360
cctatcccat tctgtgtatg agtcccattt gccttgcaat tagcattctg tctcccccaa 420
aaaagaatgt gctatgaagc tttctttcct acacactctg agtctctgaa tgaagctgaa 480
ggtcttaant acaganctag ttttcagctg ctcagaattc tctgaagaaa agatttaaga 540
tgaaaggcaa atgattcagc tccttattac cccattaaat tcnctttcaa ttccaaaaaa 600

```

```

<210> 99
<211> 667
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 345, 562, 635
<223> n = A,T,C or G

```

```

<400> 99
actagtgact gagttcctgg caaagaaatt tgacctggac cagttgataa ctcatgtttt 60
accatttaaa aaaatcagtg aaggatttga gctgctcaat tcaggacaaa gcattcgaac 120
ggtcctgacg ttttgagatc caaagtggca ggaggtctgt gttgtcatgg tgaactggag 180
tttctcttgt gagagttccc tcatctgaaa tcatgtatct gtctcacaaa tacaagcata 240
agtagaagat ttgttgaaga catagaaccc ttataaagaa ttattaacct ttataaacat 300
ttaaagtctt gtgagcacct ggggaattagt ataataacaa tgttnatatt tttgattttac 360
atthttgtaag gctataattg tatcttttaa gaaaacatac cttggatttc tatgttgaaa 420
tgagagatttt taagagtttt aaccagctgc tgcagatata ttactcaaaa cagatatagc 480
gtataaagat atagtaaatt catctcctag agtaatatc acttaacaca ttggaaacta 540
ttatthttta gatttgaata tnaatgttat tttttaaaca cttgttatga gttacttggg 600
attacatttt gaaatcagtt cattccatga tgcanattac tgggattaga ttaagaaaga 660
cggaataa 667

```

```
<220>  
<221> misc_feature  
<222> 91, 131, 256, 263, 332, 392, 400, 403, 461, 496, 497, 499,  
510, 511, 518, 519, 539, 554, 560, 576
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<400> 102

<210> 103

<212> DNA

<213> Homo sapiens

 $\langle 220 \rangle$

<221> misc feature

<222> 2, 17, 66, 74, 82, 119, 164, 166, 172, 200, 203, 228, 232,
271, 273, 415, 423, 445, 446, 473

<223> n = A, T, C or G

<400> 103

anaggactgg	ccctacntgc	tctctctcgt	cctacctatc	aatgcccac	atggcagaac	60
ctgcancct	tggncactgc	anatggaaac	ctctcagtg	cttgacatca	ccctaccnt	120
gcggtgggtc	tccaccacaa	ccactttgac	tctgtgggtc	ctgnanggtg	gnttctcctg	180
actggcagga	tggaccttan	ccnacatata	cctctgttcc	ctctgctnag	anaaagaatt	240
cccttaacat	gatataatcc	acccatgcaa	ntngctactg	gccagctac	catttaccat	300
ttgcctacag	aatttcattc	agtctacact	ttggcattct	ctctggcgat	agagtgtggc	360
tgggctgacc	gcaaaagggtg	ccttacacac	tggcccccac	cctcaaccgt	tgacncatca	420
gangcttgcc	tctctcttct	gattnncccc	catgttggtg	atcagggtgc	tcnagggtt	480
qgaaaagaaa	caaaac					496

<210> 104

<211> 575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> 18, 19, 45, 68, 77, 132, 155, 174, 219, 226, 238, 259, 263,
271, 273, 306, 323, 339, 363, 368, 370, 378, 381, 382, 436,
440, 449, 450, 456, 481, 485, 496, 503, 510, 512, 515, 528,
542, 552

$\langle 223 \rangle$ n = A, T, C or G

<400> 104

gcacctgctc	tcaatccnnc	tctcaccatg	atcctccgcc	tgcanaaaact	cctctgccaa	60
ctatggangt	ggtttcnggg	gtggctcttg	ccaactggga	agaagccgtg	gtgtctctac	120
ctgttcaact	cngtttgtgt	ctgggggatc	aactnngggc	tatggaagcg	gctnaactgt	180
tgttttggtg	gaagggctgg	taattggctt	tgggaagtng	cttatngaag	ttggcctnng	240

```

gaagttgcta ttgaaagtng ccntggaagt ngntttgggtg ggggggttttg ctggtggcct 300
ttgttnaatt tgggtgcttt gtnaatggcg gcccctcnc ctgggcaatg aaaaaaatca 360
ccnatgcngn aaacctcnac nnaacagcct gggcttccct cacctcgaaa aaagttgctc 420
ccccccaaa aaaggncaan cccctcaann tggaangttg aaaaaatcct cgaatgggga 480
ncccnaaaac aaaaancccc ccntttcccn gnaanggggg aaataccncc cccccactta 540
cnaaaaccct tntaaaaaac cccccgggaa aaaaa 575

```

```

<210> 105
<211> 619
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 260, 527, 560, 564, 566, 585, 599
<223> n = A,T,C or G

```

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<400> 105
cactagtagg atagaaacac tgtgtcccga gagtaaggag agaagctact attgattaga 60
gcctaacca ggttaactgc aagaagaggc gggatacttt cagctttcca tgtaactgta 120
tgcataaagc caatgtagtc cagtttctaa gatcatgttc caagctaact gaatcccact 180
tcaatacaca ctcatgaact cctgatggaa caataacagg cccaagcctg tggatatgatg 240
tgcacacttg ctagactcan aaaaaatact actctcataa atgggtggga gtattttggt 300
gacaacctac tttgcttggc tgagtgaagg aatgatattc atatattcat ttattccatg 360
gacatttagt tagtgctttt tatataccag gcatgatgct gagtgacact cttgtgtata 420
tttccaaatt tttgtacagt cgctgcacat atttgaaatc atatattaag acttccaaaa 480
aatgaagtcc ctgggtttttc atggcaactt gatcagtaaa ggattcnct ctgtttggta 540
cttaaaacat ctactatatn gttnanatga aattcctttt ccccnctcc cgaaaaaana 600
aagtgggtggg gaaaaaaaaa 619

```

```

<210> 106
<211> 506
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 8, 21, 31, 32, 58, 75, 89, 96, 99, 103, 122, 126, 147, 150,
158, 195, 210, 212, 219, 226, 246, 248, 249, 255, 258, 261,
263, 265, 275, 304, 317, 321, 331, 337, 340, 358, 371, 377,
380, 396, 450, 491
<223> n = A,T,C or G

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```

<400> 106
cattggtinct ttcatttgct ntggaagtgt nnatctctaa cagtggacaa agttcccngt 60
gccttaaact ctgtnacact tttgggaant gaaaanttng tantatgata ggttattctg 120
angtanagat gttctggata ccattanatn tgccccngt gtcagaggct catattgtgt 180
tatgtaaatg gtatntcatt cgctactatn antcaattng aaatanggtc tttgggttat 240
gaatantnng cagencanct nanangctgt ctgtngtatt cattgtggtc atagcacctc 300
acancattgt aacctcnatc nagtgagaca nactagnaant ttcttagtga tggctcanga 360
ttccaaatgg nctcatntcn aatgttttaa agttanttaa gtgtaagaaa tacagactgg 420
atgttccacc aactagtacc tgtaatgaen ggctgtccc aacacatctc ctttttccat 480
gactgtggta ncccgcatcg gaaaaa 506

```

<210> 107
 <211> 452
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 289, 317, 378
 <223> n = A,T,C or G

<400> 107
 gttgagtctg tactaaacag taagatatct caatgaacca taaattcaac tttgtaaaaa 60
 tcttttgaag catagataat attgtttggg aaatgtttct tttgtttggg aaatgtttct 120
 tttaaagacc ctctatttct ataaaactct gcatgtagag gcttgtttac ctttctctct 180
 ctaagggttta caataggagt ggtgatttga aaaatataaa attatgagat tgggttttct 240
 gtggcataaa ttgcatcact gtatcatttt cttttttaac cggtaagant ttcagtttgt 300
 tggaaagtaa ctgtganaac ccagtttccc gtccatctcc cttagggact acccatagaa 360
 catgaaaagg tccccacnga agcaagaaga taagtctttc atggctgctg gttgcttaaa 420
 ccacttttaa accaaaaaat tccccttgga aa 452

<210> 108
 <211> 502
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 22, 31, 126, 168, 183, 205, 219, 231, 236, 259, 283, 295,
 296, 298, 301, 340, 354, 378, 383, 409, 433, 446, 455, 466,
 488
 <223> n = A,T,C or G

<400> 108
 atctttcttcc cttaattagt tnttatattat ntattaaatt ttattgcatg tcctggcaaa 60
 caaaaagaga ttgtagattg gcttctgggt ccccaaaagc ccataacaga aagtaccaca 120
 agaccncaac tgaagcttaa aaaatctatc acatgtataa tacctttnga agaacattaa 180
 tanagcatat aaaactttta acatntgctt aatgttgtnc aattataaaa ntaatngaaa 240
 aaaatgtccc tttaacatnc aatatccac atagtgttat ttnaggggat taccnngnaa 300
 naaaaaaagg gtagaaggga tttaatgaaa actctgcttn ccatttctgt ttanaaacgt 360
 ctccagaaca aaaacttntc aantctttca gctaaccgca tttgagctna ggccactcaa 420
 aaactccatt agnccactt tctaanggtc tctanagctt actaancctt ttgaccctt 480
 accctggnta ctctgcccct ca 502

<210> 109
 <211> 1308
 <212> DNA
 <213> Homo sapiens

<400> 109
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 tttgatcttt tcaaagagct gaagaaaaca aatgatggca acatcttctt ttcccctgtg 120
 ggcactcttga ctgcaatttg catggtcctc ctggggaccc gaggagccac cgcttcccag 180
 ttggaggagg tgtttcactc tgaaaaagag acgaagagct caagaataaa ggctgaagaa 240
 aaagaggtga ttgagaacac agaagcagta catcaacaat tccaaaagtt tttgactgaa 300

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<210> 110
<211> 391
<212> PRT
<213> Homo sapiens
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<400> 110																
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Lys	Glu	Leu	Lys	Lys	Thr	Asn	Asp	Gly	Asn	Ile	Phe	Phe	Ser	Pro	Val	
			20					25					30			
Gly	Ile	Leu	Thr	Ala	Ile	Gly	Met	Val	Leu	Leu	Gly	Thr	Arg	Gly	Ala	
		35					40					45				
Thr	Ala	Ser	Gln	Leu	Glu	Glu	Val	Phe	His	Ser	Glu	Lys	Glu	Thr	Lys	
	50					55					60					
Ser	Ser	Arg	Ile	Lys	Ala	Glu	Glu	Lys	Glu	Val	Ile	Glu	Asn	Thr	Glu	
65					70					75					80	
Ala	Val	His	Gln	Gln	Phe	Gln	Lys	Phe	Leu	Thr	Glu	Ile	Ser	Lys	Leu	
			85						90					95		
Thr	Asn	Asp	Tyr	Glu	Leu	Asn	Ile	Thr	Asn	Arg	Leu	Phe	Gly	Glu	Lys	
			100					105					110			
Thr	Tyr	Leu	Phe	Leu	Gln	Lys	Tyr	Leu	Asp	Tyr	Val	Glu	Lys	Tyr	Tyr	
		115					120					125				
His	Ala	Ser	Leu	Glu	Pro	Val	Asp	Phe	Val	Asn	Ala	Ala	Asp	Glu	Ser	
	130					135					140					
Arg	Lys	Lys	Ile	Asn	Ser	Trp	Val	Glu	Ser	Lys	Thr	Asn	Glu	Lys	Ile	
145					150					155					160	
Lys	Asp	Leu	Phe	Pro	Asp	Gly	Ser	Ile	Ser	Ser	Ser	Thr	Lys	Leu	Val	
			165						170					175		
Leu	Val	Asn	Met	Val	Tyr	Phe	Lys	Gly	Gln	Trp	Asp	Arg	Glu	Phe	Lys	
			180					185					190			
Lys	Glu	Asn	Thr	Lys	Glu	Glu	Lys	Phe	Trp	Met	Asn	Lys	Ser	Thr	Ser	
		195					200					205				
Lys	Ser	Val	Gln	Met	Met	Thr	Gln	Ser	His	Ser	Phe	Ser	Phe	Thr	Phe	
	210					215					220					
Leu	Glu	Asp	Leu	Gln	Ala	Lys	Ile	Leu	Gly	Ile	Pro	Tyr	Lys	Asn	Asn	
225					230					235					240	

Asp Leu Ser Met Phe Val Leu Leu Pro Asn Asp Ile Asp Gly Leu Glu
 245 250 255
 Lys Ile Ile Asp Lys Ile Ser Pro Glu Lys Leu Val Glu Trp Thr Ser
 260 265 270
 Pro Gly His Met Glu Glu Arg Lys Val Asn Leu His Leu Pro Arg Phe
 275 280 285
 Glu Val Glu Asp Ser Tyr Asp Leu Glu Ala Val Leu Ala Ala Met Gly
 290 295 300
 Met Gly Asp Ala Phe Ser Glu His Lys Ala Asp Tyr Ser Gly Met Ser
 305 310 315 320
 Ser Gly Ser Gly Leu Tyr Ala Gln Lys Phe Leu His Ser Ser Phe Val
 325 330 335
 Ala Val Thr Glu Glu Gly Thr Glu Ala Ala Ala Thr Gly Ile Gly
 340 345 350
 Phe Thr Val Thr Ser Ala Pro Gly His Glu Asn Val His Cys Asn His
 355 360 365
 Pro Phe Leu Phe Phe Ile Arg His Asn Glu Ser Asn Ser Ile Leu Phe
 370 375 380
 Phe Gly Arg Phe Ser Ser Pro
 385 390

<210> 111
 <211> 1419
 <212> DNA
 <213> Homo sapiens

<400> 111
 ggagaactat aaattaagga tcccagctac ttaattgact tatgcttcct agttcgttgc 60
 ccagccacca ccgtctctcc aaaaacccga ggtctcgcta aaatcatcat ggattcactt 120
 ggcgcggtca gcactcgact tgggtttgat cttttcaaag agctgaagaa aacaaatgat 180
 ggcaacatct tcttttcccc tgtgggcatc ttgactgcaa ttggcatggg cctcctgggg 240
 acccgaggag ccaccgcttc ccagttggag gaggtgtttc actctgaaaa agagacgaag 300
 agctcaagaa taaaggctga agaaaaagag gtggtaagaa taaaggctga aggaaaagag 360
 attgagaaca cagaagcagt acatcaacaa ttccaaaagt ttttgactga aataagcaaa 420
 ctactaatg attatgaact gaacataacc aacaggctgt ttggagaaaa aacatacctc 480
 ttccttcaaa aatacttaga ttatgttgaa aaatattatc atgcatctct ggaacctgtt 540
 gatthttgtaa atgcagccga tgaaagtcga aagaagatta attcctgggt tgaaagcaaa 600
 acaaatgaaa aaatcaagga cttgttccca gatggctcta ttagtagctc taccaagctg 660
 gtgctgggtga acatgggttta ttttaaaggg caatgggaca gggagtthta gaaagaaaat 720
 actaaggaag agaaattttg gatgaataag agcacaagta aatctgtaca gatgatgaca 780
 cagagccatt ccttttagctt cactttcctg gaggacttgc aggccaaaat tctagggatt 840
 ccatataaaa acaacgacct aagcatgttt gtgcttctgc ccaacgacat cgatggcctg 900
 gagaagataa tagataaaat aagtcctgag aaattggttag agtggactag tccagggcat 960
 atggaagaaa gaaagggtgaa tctgcacttg ccccggtttg aggtggagga cagttacgat 1020
 ctagaggcgg tcttggtctgc catgggggatg ggcgatgcct tcagttagca caaagccgac 1080
 tactcgggaa tgtcgtcagg ctccgggttg tacgcccaga agttcctgca cagttccttt 1140
 gtggcagtaa ctgaggaagg caccgaggct gcagctgcca ctggcatagg ctttactgtc 1200
 acatccgccc caggtcatga aaatgttcac tgcaatcatc ctttcctgtt cttcatcagg 1260
 cacaatgaat ccaacagcat cctcttcttc ggcagatttt cttctcctta agatgatcgt 1320
 tgccatggca ttgctgcttt tagcaaaaaa caactaccag tgttactcat atgattatga 1380
 aaatcgtcca ttcttttaaa tgggtggctca cttgcattt 1419

<210> 112

<400> 112																
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Lys	Glu	Leu	Lys	Lys	Thr	Asn	Asp	Gly	Asn	Ile	Phe	Phe	Ser	Pro	Val	
			20					25					30			
Gly	Ile	Leu	Thr	Ala	Ile	Gly	Met	Val	Leu	Leu	Gly	Thr	Arg	Gly	Ala	
		35					40					45				
Thr	Ala	Ser	Gln	Leu	Glu	Glu	Val	Phe	His	Ser	Glu	Lys	Glu	Thr	Lys	
	50					55					60					
Ser	Ser	Arg	Ile	Lys	Ala	Glu	Glu	Lys	Glu	Val	Val	Arg	Ile	Lys	Ala	
65					70					75					80	
Glu	Gly	Lys	Glu	Ile	Glu	Asn	Thr	Glu	Ala	Val	His	Gln	Gln	Phe	Gln	
			85						90					95		
Lys	Phe	Leu	Thr	Glu	Ile	Ser	Lys	Leu	Thr	Asn	Asp	Tyr	Glu	Leu	Asn	
			100					105					110			
Ile	Thr	Asn	Arg	Leu	Phe	Gly	Glu	Lys	Thr	Tyr	Leu	Phe	Leu	Gln	Lys	
		115					120					125				
Tyr	Leu	Asp	Tyr	Val	Glu	Lys	Tyr	Tyr	His	Ala	Ser	Leu	Glu	Pro	Val	
	130					135					140					
Asp	Phe	Val	Asn	Ala	Ala	Asp	Glu	Ser	Arg	Lys	Lys	Ile	Asn	Ser	Trp	
145				150						155					160	
Val	Glu	Ser	Lys	Thr	Asn	Glu	Lys	Ile	Lys	Asp	Leu	Phe	Pro	Asp	Gly	
			165						170					175		
Ser	Ile	Ser	Ser	Ser	Thr	Lys	Leu	Val	Leu	Val	Asn	Met	Val	Tyr	Phe	
			180					185					190			
Lys	Gly	Gln	Trp	Asp	Arg	Glu	Phe	Lys	Lys	Glu	Asn	Thr	Lys	Glu	Glu	
		195					200					205				
Lys	Phe	Trp	Met	Asn	Lys	Ser	Thr	Ser	Lys	Ser	Val	Gln	Met	Met	Thr	
	210					215					220					
Gln	Ser	His	Ser	Phe	Ser	Phe	Thr	Phe	Leu	Glu	Asp	Leu	Gln	Ala	Lys	
225					230					235					240	
Ile	Leu	Gly	Ile	Pro	Tyr	Lys	Asn	Asn	Asp	Leu	Ser	Met	Phe	Val	Leu	
			245						250					255		
Leu	Pro	Asn	Asp	Ile	Asp	Gly	Leu	Glu	Lys	Ile	Ile	Asp	Lys	Ile	Ser	
			260					265					270			
Pro	Glu	Lys	Leu	Val	Glu	Trp	Thr	Ser	Pro	Gly	His	Met	Glu	Glu	Arg	
		275					280					285				
Lys	Val	Asn	Leu	His	Leu	Pro	Arg	Phe	Glu	Val	Glu	Asp	Ser	Tyr	Asp	
	290					295					300					
Leu	Glu	Ala	Val	Leu	Ala	Ala	Met	Gly	Met	Gly	Asp	Ala	Phe	Ser	Glu	
305					310					315					320	
His	Lys	Ala	Asp	Tyr	Ser	Gly	Met	Ser	Ser	Gly	Ser	Gly	Leu	Tyr	Ala	
			325						330					335		
Gln	Lys	Phe	Leu	His	Ser											

400

<400> 113						
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gaaacatgag	ttcttaccag	cagaagcaga	cctttacccc	accacctcag	cttcaacagc	180
agcaggtgaa	acaacccagc	cagcctccac	ctcaggaaat	atttggtccc	acaaccaagg	240
agccatgcca	ctcaaagggt	ccacaacctg	gaaacacaaa	gattccagag	ccaggctgta	300
ccaagggtccc	tgagccaggc	tgtaccaagg	tccttgagcc	aggttgtacc	aagggtccctg	360
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ccaagggtccc	tgagccaggc	agcatcaagg	tccttgacca	aggttccatc	aagtttcctg	480
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agcagaagta	atttggtgca	cagacaagcc	cttgagaagc	caaccaccag	atgctggaca	660
ccctcttccc	atctgtttct	gtgtcttaat	tgtctgtaga	ccttgtaatc	agtacattct	720
cacccaagc	catagtctct	ctcttatttg	tatcctaaaa	atacggtact	ataaagcttt	780
tgttcacaca	cactctgaag	aatcctgtaa	gcccctgaat	taagcagaaa	gtcttcatgg	840
cttttctgggt	cttcggctgc	tcagggttca	tctgaagatt	cgaatgaaaa	gaaatgcatg	900
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<210> 114
<211> 161
<212> PRT
<213> Homo sapiens
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[illegible]

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<220>
<221> misc_feature
<222> 8, 21, 31, 32, 58, 75, 89, 96, 99, 103, 122, 126, 147, 150,
158, 195, 210, 212, 219, 226, 246, 248, 249, 255, 258, 261,
263, 265, 275, 304, 317, 321, 331, 337, 340, 358, 371, 377,
380, 396, 450, 491
<223> n = A,T,C or G

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<210> 116
<211> 3079
<212> DNA
<213> Homo sapiens
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<400> 116						
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aaagagggtca	aagtggttta	tagggggcgc	tgagggtctc	ccacattctc	tggcctaaac	180
cttgcaaggca	gatctgcca	gtgggctctg	ggatagctgt	gccttccta	acaaaaaat	240
tgtgcacaaa	aggatgaaac	tctattttcc	ctctagcaca	taaccaagaa	tataaggcta	300
cagattgcct	ttcccagagg	gaaaaccctg	cagcaacctg	ctgcctggaa	aagtgtaga	360
gcagatcact	ggggaatcgt	ttgccccccg	ctgatggaca	gcttccccaa	gctccaaggg	420
caggtgctca	gcatgtaccg	tactgggatg	gttgtcaata	ctcctggctc	tgtaagagtc	480
ccaggacact	gccatgccaa	tgccccctca	gttcctggca	tccttttttg	gctgctcaca	540
gccccagcct	ctatggtgaa	gacatacttg	ctagcagcgt	caccaacttg	ttgccaaagag	600
atcagtgctc	gaaggcaagg	ttattttctaa	ctgagcagag	cctgccagga	agaaagcgtt	660
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ccagcccact	taatcatcac	agctcgacag	ctctctcgcc	cagcccagtt	ctggaaggga	780
taaaaagggg	catcaccgtt	cctgggtaac	agagccacct	tctgcgtcct	gctgagctct	840
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gctatggcag	ccggagcctc	tacaacctgg	ggggctccaa	gaggatatcc	atcagcacta	1140
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gtggtgccgg	tagtggaattt	ggtttcggcg	gtggagctgg	tggtggcttt	gggctcgggtg	1260
gcqgagctgg	ctttggaggt	ggcttcgggtg	gccctggctt	tcctgtctgc	cctcctggag	1320

gtatccaaga ggtcactgtc aaccagagtc tcctgactcc cctcaacctg caaatcgacc 1380
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ctgacacctc agtggtcctc tccatggaca acaaccgcaa cctggacctg gatagcatca 1920
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ggcactag                                     8948

```

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<210> 120
<211> 587
<212> DNA
<213> Homo sapiens

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```

<220>
<221> misc_feature
<222> 91, 131, 256, 263, 332, 392, 400, 403, 461, 496, 497, 499,
510, 511, 518, 519, 539, 554, 560, 576
<223> n = A,T,C or G

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<400> 120
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gacactgccc attcctctc agggcagctc angtcacccn ggnetcttga acccagcctg 420
ttcctttgaa aaagggcaaa actgaaaagg gcttttccta naaaaagaaa aaccagggaa 480
ctttgccagg gcttcnntnt taccaaaacn ncttctcnng gatttttaat tccccattng 540
gcctccactt accnggggcn atgccccaaa attaanaatt tcccatc 587

```

```

<210> 121
<211> 619
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 260, 527, 560, 564, 566, 585, 599
<223> n = A,T,C or G

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<400> 121
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tgcataaagc caatgtagtc cagtttctaa gatcatgttc caagctaact gaatcccact 180
tcaatacaca ctcatgaact cctgatggaa caataacagg cccaagcctg tggatgatg 240
tgcacacttg ctagactcan aaaaaatact actctcataa atgggtggga gtattttggt 300
gacaacctac tttgcttggc tgagtgaagg aatgatattc atatattcat ttattccatg 360

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gacatttagt	tagtgctttt	tatataaccag	gcatgatgct	gagtgacact	cttgtgtata	420
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aatgaagtcc	ctggtttttc	atggcaactt	gatcagtaaa	ggattcncct	ctgttttggt	540
cttaaaacat	ctactatatn	gttnanatga	aattcctttt	ccccncctcc	cgaaaaaana	600
aagtgggtggg	gaaaaaaaaa					619

<210> 122

<211> 1475

<212> DNA

<213> Homo sapiens

<400> 122

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<210> 123

<211> 2294

<212> DNA

<213> Homo sapiens

<400> 123

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cataattact	gcaggaaccc	agacaaccgg	aggcgaccct	ggtgctatgt	gcaggtgggc	480
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<210> 124
 <211> 956
 <212> DNA
 <213> Homo sapiens

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<210> 125

<211> 486
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 16
 <223> n = A,T,C or G

<400> 125
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 ttggaaaact gcttttcttc tgagaacctt attctgaatg tcatcaactt taccaaacct 180
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 agcgcagggtt ttggatacta gagaaagtca tttgcttgta ctattgccat tttagaaagc 420
 tctgatgtga attcaaattt tacctctgtt acttaaagcc aacaatttta aggcagtagt 480
 tttact 486

<210> 126
 <211> 3552
 <212> DNA
 <213> Homo sapiens

<400> 126
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<210> 127
<211> 754
<212> DNA
<213> Homo sapiens
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<210> 128

<400> 130						
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 tggaatttgg ggtgtcctta taggaccaga ggttgtgttt gctccacctt cttgactccc 300
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 tagtgatcc g 371

<210> 146
 <211> 355
 <212> DNA
 <213> Homo sapiens

<400> 146
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 ggtacggaag atcgggtctg gctccttcgg ggacatctat ttggcgatca acatcaccaa 180
 cggcgaggaa gtggcagtga agctagaatc tcagaaggcc aggcacccc agttgctgta 240
 cgagagcaag ctctataaga ttcttcaagg tgggggttggc atccccaca tacggtggta 300
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<210> 147
 <211> 355
 <212> DNA
 <213> Homo sapiens

<400> 147
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 tactatgcac gtgctgtgat tttgaacata actcgtccca aaaacttgtc acgatcatcc 120
 tgacttttta gggttggtga tccatcaatc ttgcactcaa ctgttacttc tttcccagtg 180

```

ttgttaggag caaagctgac ctgaacagca accaatggct gtagataccc aacatgcagt 240
tttttcccat aatatgggaa atattttaag tctatcattc cattatgagg ataaactgct 300
acatttggtg tatcttcatt ctttgaaaca caatctatcc ttggcactcc ttcag      355

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<210> 148
<211> 369
<212> DNA
<213> Homo sapiens

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<400> 148
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agggagtgtg ccgaggggct ctgagaaggc ttctctcaca tctagaaaga agcgcttaag 180
atgtggcagc ccctcttctt caagtggctc ttgtcctggt gccctgggag ttctcaaatt 240
gctgcagcag cctccatcca gcctgaggat gacatcaata cacagaggaa gaagagtcag 300
gaaaagatga gagaagttac agactctcct gggcgacccc gagagcttac cattcctcag 360
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<210> 149
<211> 620
<212> DNA
<213> Homo sapiens

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<220>
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<222> 169, 171, 222, 472, 528, 559, 599
<223> n = A,T,C or G

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<400> 149
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gccaatatct ccttataatc atccataaca tttatactac atttgtaana naatatgcac 180
gtgaaactta acactttata aggtaaaaat gaggtttcca anatttaata atctgatcaa 240
gttcttggtt tttccaaata gaatggactt ggtctgttaa gggctaagga gaagaggaag 300
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gagaatttct cattaatatc ctgaatcatt catttcacta aggcctcatg tnactccgat 480
atgtctctaa gaaagtacta tttcatgggc caaacctggg tgccatantt gggtaaaggc 540
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<210> 150
<211> 371
<212> DNA
<213> Homo sapiens

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<400> 150
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aaaatttaat tttagggtat catttctata ttttcacata tgtagtatta ttatttcctt 240
atatgtgtaa ggtgaaattt atgggtattg agtgtgcaag aaaatatatt tttaaagcct 300
tcatttttcc cccagtgaat gatttagaat tttttatgta aatatacaga atgttttttc 360
ttacttttat a                                     371

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<400> 151						
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<210> 152
 <211> 586
 <212> PRT
 <213> Homo sapiens

<400> 152

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			20					25						30	
Gly	Ser	Ser	Ser	Thr	Ser	Pro	Tyr	Asn	Thr	Asp	His	Ala	Gln	Asn	Ser
			35				40					45			
Val	Thr	Ala	Pro	Ser	Pro	Tyr	Ala	Gln	Pro	Ser	Ser	Thr	Phe	Asp	Ala
			50				55				60				
Leu	Ser	Pro	Ser	Pro	Ala	Ile	Pro	Ser	Asn	Thr	Asp	Tyr	Pro	Gly	Pro
65					70					75				80	
His	Ser	Phe	Asp	Val	Ser	Phe	Gln	Gln	Ser	Ser	Thr	Ala	Lys	Ser	Ala
				85					90					95	
Thr	Trp	Thr	Tyr	Ser	Thr	Glu	Leu	Lys	Lys	Leu	Tyr	Cys	Gln	Ile	Ala
			100					105					110		
Lys	Thr	Cys	Pro	Ile	Gln	Ile	Lys	Val	Met	Thr	Pro	Pro	Pro	Gln	Gly
			115				120						125		

Ala 130	Val	Ile	Arg	Ala	Met	Pro	Val	Tyr	Lys	Lys	Ala	Glu	His	Val	Thr
Glu 145	Val	Val	Lys	Arg	Cys	Pro	Asn	His	Glu	Leu	Ser	Arg	Glu	Phe	Asn 160
Glu	Gly	Gln	Ile	Ala	Pro	Ser	Ser	His	Leu	Ile	Arg	Val	Glu	Gly	Asn 175
Ser	His	Ala	Gln	Tyr	Val	Glu	Asp	Pro	Ile	Thr	Gly	Arg	Gln	Ser	Val
Leu	Val	Pro	Tyr	Glu	Pro	Pro	Gln	Val	Gly	Thr	Glu	Phe	Thr	Thr	Val
Leu	Tyr	Asn	Phe	Met	Cys	Asn	Ser	Ser	Cys	Val	Gly	Gly	Met	Asn	Arg
Arg 225	Pro	Ile	Leu	Ile	Ile	Val	Thr	Leu	Glu	Thr	Arg	Asp	Gly	Gln	Val 240
Leu	Gly	Arg	Arg	Cys	Phe	Glu	Ala	Arg	Ile	Cys	Ala	Cys	Pro	Gly	Arg
Asp	Arg	Lys	Ala	Asp	Glu	Asp	Ser	Ile	Arg	Lys	Gln	Gln	Val	Ser	Asp
Ser	Thr	Lys	Asn	Gly	Asp	Gly	Thr	Lys	Arg	Pro	Phe	Arg	Gln	Asn	Thr
His 290	Gly	Ile	Gln	Met	Thr	Ser	Ile	Lys	Lys	Arg	Arg	Ser	Pro	Asp	Asp
Glu 305	Leu	Val	Tyr	Leu	Pro	Val	Arg	Gly	Arg	Glu	Thr	Tyr	Glu	Met	Leu 320
Val	Lys	Ile	Lys	Glu	Ser	Leu	Glu	Leu	Met	Gln	Tyr	Leu	Leu	Gln	His 335
Thr	Ile	Glu	Thr	Tyr	Arg	Gln	Gln	Gln	Gln	Gln	Gln	His	Gln	His	Leu
Leu	Gln	Lys	Gln	Thr	Ser	Ile	Gln	Ser	Pro	Ser	Ser	Tyr	Gly	Asn	Ser
Ser 370	Pro	Pro	Leu	Asn	Lys	Met	Asn	Ser	Met	Asn	Lys	Leu	Pro	Ser	Val
Ser 385	Gln	Leu	Ile	Asn	Pro	Gln	Gln	Arg	Asn	Ala	Leu	Thr	Pro	Thr	Thr 400
Ile	Pro	Asp	Gly	Met	Gly	Ala	Asn	Ile	Pro	Met	Met	Gly	Thr	His	Met
Pro	Met	Ala	Gly	Asp	Met	Asn	Gly	Leu	Ser	Pro	Thr	Gln	Ala	Leu	Pro
Pro	Pro	Leu	Ser	Met	Pro	Ser	Thr	Ser	His	Cys	Thr	Pro	Pro	Pro	Pro
Tyr 450	Pro	Thr	Asp	Cys	Ser	Ile	Val	Ser	Phe	Leu	Ala	Arg	Leu	Gly	Cys
Ser 465	Ser	Cys	Leu	Asp	Tyr	Phe	Thr	Thr	Gln	Gly	Leu	Thr	Thr	Ile	Tyr 480
Gln	Ile	Glu	His	Tyr	Ser	Met	Asp	Asp	Leu	Ala	Ser	Leu	Lys	Ile	Pro
Glu	Gln	Phe	Arg	His	Ala	Ile	Trp	Lys	Gly	Ile	Leu	Asp	His	Arg	Gln
Leu	His	Glu	Phe	Ser	Ser	Pro	Ser	His	Leu	Leu	Arg	Thr	Pro	Ser	Ser
Ala 530	Ser	Thr	Val	Ser	Val	Gly	Ser	Ser	Glu	Thr	Arg	Gly	Glu	Arg	Val
Ile 545	Asp	Ala	Val	Arg	Phe	Thr	Leu	Arg	Gln	Thr	Ile	Ser	Phe	Pro	Pro 560

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<210> 153
<211> 2007
<212> DNA
<213> Homo sapiens
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<210> 154
<211> 2148
<212> DNA
<213> Homo sapiens
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<400> 154
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<210> 155
 <211> 153
 <212> PRT
 <213> Homo sapiens

<400> 155
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 Trp Arg Pro Val Lys Ala Ser Asp Gly Asp Tyr Tyr Thr Leu Ala Val
 20 25 30
 Pro Met Gly Asp Val Pro Met Asp Gly Ile Ser Val Ala Asp Ile Gly
 35 40 45
 Ala Ala Val Ser Ser Ile Phe Asn Ser Pro Glu Glu Phe Leu Gly Lys
 50 55 60
 Ala Val Gly Leu Ser Ala Glu Ala Leu Thr Ile Gln Gln Tyr Ala Asp
 65 70 75 80
 Val Leu Ser Lys Ala Leu Gly Lys Glu Val Arg Asp Ala Lys Ile Thr
 85 90 95

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<210> 156
<211> 128
<212> PRT
<213> Homo sapiens
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<210> 157
<211> 424
<212> DNA
<213> Homo sapiens
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<220>  
<221> misc_feature  
<222> 320, 322  
<223> n = A,T,C or G
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<400> 157						
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aattcagtca	ccactgttat	attaccttct	ccaggaaccc	tccagtgggg	aaggctgcga	180
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agcccagaaa	cttctctgcn	gnatctggct	tgtccatctg	gtctaagggtg	gctgcttctt	360
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tqct						424

<210> 158
 <211> 2099
 <212> DNA
 <213> Homo sapiens

<400> 158
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<210> 159
 <211> 291
 <212> PRT
 <213> Homo sapiens

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 Glu Gly Ser Leu Trp Trp Thr Tyr Thr Ser Ser Ile Phe Phe Arg Ile
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 Ile Phe Glu Ala Ala Phe Met Tyr Val Phe Tyr Phe Leu Tyr Asn Gly
 145 150 155 160
 Tyr His Leu Pro Trp Val Leu Lys Cys Gly Ile Asp Pro Cys Pro Asn
 165 170 175
 Leu Val Asp Cys Phe Ile Ser Arg Pro Thr Glu Lys Thr Val Phe Thr
 180 185 190
 Ile Phe Met Ile Ser Ala Ser Val Ile Cys Met Leu Leu Asn Val Ala
 195 200 205
 Glu Leu Cys Tyr Leu Leu Leu Lys Val Cys Phe Arg Arg Ser Lys Arg
 210 215 220
 Ala Gln Thr Gln Lys Asn His Pro Asn His Ala Leu Lys Glu Ser Lys
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 <212> DNA
 <213> Homo sapiens

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<211> 943
 <212> PRT
 <213> Homo sapiens

<400> 161

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Phe	Phe	Arg	Asn	Ile	Lys	Ile	Leu	Ile	Pro	Ala	Thr	Trp	Lys	Ala	Asn
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Arg	Ser	Ala	Trp	Asp	Val	Ile	Thr	Asp	Ser	Ala	Asp	Phe	His	His	Ser
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	290					295					300				
Val	Glu	Ala	Gly	Asp	Lys	Val	Val	Cys	Leu	Val	Leu	Asp	Val	Ser	Ser
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Lys	Met	Ala	Glu	Ala	Asp	Arg	Leu	Leu	Gln	Leu	Gln	Gln	Ala	Ala	Glu
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Ser	Phe	Asp	Ser	Lys	Gly	Glu	Ile	Arg	Ala	Gln	Leu	His	Gln	Ile	Asn
		355				360						365			
Ser	Asn	Asp	Asp	Arg	Lys	Leu	Leu	Val	Ser	Tyr	Leu	Pro	Thr	Thr	Val
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100070070007

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Ala	Ala	Pro	Asn	Leu	Glu	Glu	Leu	Ser	Arg	Leu	Thr	Gly	Gly	Leu	Lys
	450				455					460					
Phe	Phe	Val	Pro	Asp	Ile	Ser	Asn	Ser	Asn	Ser	Met	Ile	Asp	Ala	Phe
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Thr	Trp	Gln	Ala	Ser	Gly	Pro	Pro	Glu	Ile	Ile	Leu	Phe	Asp	Pro	Asp
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Gly	Arg	Lys	Tyr	Tyr	Thr	Asn	Asn	Phe	Ile	Thr	Asn	Leu	Thr	Phe	Arg
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Thr	Ala	Thr	Val	Glu	Pro	Glu	Thr	Gly	Asp	Pro	Val	Thr	Leu	Arg	Leu
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Ser	Arg	Tyr	Phe	Phe	Ser	Phe	Ala	Ala	Asn	Gly	Arg	Tyr	Ser	Leu	Lys
	675					680					685				
Val	His	Val	Asn	His	Ser	Pro	Ser	Ile	Ser	Thr	Pro	Ala	His	Ser	Ile
	690				695						700				
Pro	Gly	Ser	His	Ala	Met	Tyr	Val	Pro	Gly	Tyr	Thr	Ala	Asn	Gly	Asn
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Ile	Gln	Met	Asn	Ala	Pro	Arg	Lys	Ser	Val	Gly	Arg	Asn	Glu	Glu	Glu
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Arg	Lys	Trp	Gly	Phe	Ser	Arg	Val	Ser	Ser	Gly	Gly	Ser	Phe	Ser	Val
		740				745						750			
Leu	Gly	Val	Pro	Ala	Gly	Pro	His	Pro	Asp	Val	Phe	Pro	Pro	Cys	Lys
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	770				775				780						
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785				790					795					800	
Glu	Ile	Arg	Met	Ser	Lys	Ser	Leu	Gln	Asn	Ile	Gln	Asp	Asp	Phe	Asn
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<210> 162
<211> 498
<212> DNA
<213> Homo sapiens
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<210> 163
<211> 1128
<212> DNA
<213> Homo sapiens
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<210> 172

<211> 364

<212> PRT

<213> Homo sapiens

<400> 172

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          20          25          30
Asn Thr Gln Arg Lys Lys Ser Gln Glu Lys Met Arg Glu Val Thr Asp
          35          40          45
Ser Pro Gly Arg Pro Arg Glu Leu Thr Ile Pro Gln Thr Ser Ser His
          50          55          60
Gly Ala Asn Arg Phe Val Pro Lys Ser Lys Ala Leu Glu Ala Val Lys
65          70          75          80
Leu Ala Ile Glu Ala Gly Phe His His Ile Asp Ser Ala His Val Tyr
          85          90          95
Asn Asn Glu Glu Gln Val Gly Leu Ala Ile Arg Ser Lys Ile Ala Asp
          100          105          110
Gly Ser Val Lys Arg Glu Asp Ile Phe Tyr Thr Ser Lys Leu Trp Ser
          115          120          125
Asn Ser His Arg Pro Glu Leu Val Arg Pro Ala Leu Glu Arg Ser Leu
          130          135          140
Lys Asn Leu Gln Leu Asp Tyr Val Asp Leu Tyr Leu Ile His Phe Pro
145          150          155          160
Val Ser Val Lys Pro Gly Glu Glu Val Ile Pro Lys Asp Glu Asn Gly
          165          170          175
Lys Ile Leu Phe Asp Thr Val Asp Leu Cys Ala Thr Trp Glu Ala Met
          180          185          190
Glu Lys Cys Lys Asp Ala Gly Leu Ala Lys Ser Ile Gly Val Ser Asn
          195          200          205
Phe Asn His Arg Leu Leu Glu Met Ile Leu Asn Lys Pro Gly Leu Lys
          210          215          220
Tyr Lys Pro Val Cys Asn Gln Val Glu Cys His Pro Tyr Phe Asn Gln
225          230          235          240
Arg Lys Leu Leu Asp Phe Cys Lys Ser Lys Asp Ile Val Leu Val Ala
          245          250          255
Tyr Ser Ala Leu Gly Ser His Arg Glu Glu Pro Trp Val Asp Pro Asn
          260          265          270
Ser Pro Val Leu Leu Glu Asp Pro Val Leu Cys Ala Leu Ala Lys Lys
          275          280          285
His Lys Arg Thr Pro Ala Leu Ile Ala Leu Arg Tyr Gln Leu Gln Arg
          290          295          300
Gly Val Val Val Leu Ala Lys Ser Tyr Asn Glu Gln Arg Ile Arg Gln
305          310          315          320
Asn Val Gln Val Phe Glu Phe Gln Leu Thr Ser Glu Glu Met Lys Ala
          325          330          335

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1000
700
600
500
400
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200
100
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<210> 173
 <211> 1988
 <212> DNA
 <213> Homo sapiens

<400> 173
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<210> 174
 <211> 238
 <212> PRT
 <213> Homo sapiens

<400> 174
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Leu Arg Ser Ala Pro Leu Gly Pro Ala Pro Pro Val Asn Met Ile Arg			
	35	40	45
Cys Gly Leu Ala Cys Glu Arg Cys Arg Trp Ile Leu Pro Leu Leu Leu			
	50	55	60
Leu Ser Ala Ile Ala Phe Asp Ile Ile Ala Leu Ala Gly Arg Gly Trp			
65	70	75	80
Leu Gln Ser Ser Asp His Gly Gln Thr Ser Ser Leu Trp Trp Lys Cys			
	85	90	95
Ser Gln Glu Gly Gly Gly Ser Gly Ser Tyr Glu Glu Gly Cys Gln Ser			
	100	105	110
Leu Met Glu Tyr Ala Trp Gly Arg Ala Ala Ala Met Leu Phe Cys			
	115	120	125
Gly Phe Ile Ile Leu Val Ile Cys Phe Ile Leu Ser Phe Phe Ala Leu			
	130	135	140
Cys Gly Pro Gln Met Leu Val Phe Leu Arg Val Ile Gly Gly Leu Leu			
145	150	155	160
Ala Leu Ala Ala Val Phe Gln Ile Ile Ser Leu Val Ile Tyr Pro Val			
	165	170	175
Lys Tyr Thr Gln Thr Phe Thr Leu His Ala Asn Pro Ala Val Thr Tyr			
	180	185	190
Ile Tyr Asn Trp Ala Tyr Gly Phe Gly Trp Ala Ala Thr Ile Ile Leu			
	195	200	205
Ile Gly Cys Ala Phe Phe Phe Cys Cys Leu Pro Asn Tyr Glu Asp Asp			
	210	215	220
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225	230	235	

<210> 175
 <211> 4181
 <212> DNA
 <213> Homo sapiens

<220>
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 4036, 4056, 4062, 4080, 4088, 4115
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<210> 176
<211> 579
<212> PRT
<213> Homo sapiens
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<400> 176																
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			20					25					30			
Phe	Leu	Val	Lys	Thr	Gly	Tyr	Ala	Phe	Val	Asp	Cys	Pro	Asp	Glu	Ser	
		35					40					45				
Trp	Ala	Leu	Lys	Ala	Ile	Glu	Ala	Leu	Ser	Gly	Lys	Ile	Glu	Leu	His	
	50					55					60					
Gly	Lys	Pro	Ile	Glu	Val	Glu	His	Ser	Val	Pro	Lys	Arg	Gln	Arg	Ile	
65				70						75				80		
Arg	Lys	Leu	Gln	Ile	Arg	Asn	Ile	Pro	Pro	His	Leu	Gln	Trp	Glu	Val	
			85					90						95		
Leu	Asp	Ser	Leu	Leu	Val	Gln	Tyr	Gly	Val	Val	Glu	Ser	Cys	Glu	Gln	
			100					105					110			
Val	Asn	Thr	Asp	Ser	Glu	Thr	Ala	Val	Val	Asn	Val	Thr	Tyr	Ser	Ser	
		115					120					125				
Lys	Asp	Gln	Ala	Arg	Gln	Ala	Leu	Asp	Lys	Leu	Asn	Gly	Phe	Gln	Leu	
	130					135					140					
Glu	Asn	Phe	Thr	Leu	Lys	Val	Ala	Tyr	Ile	Pro	Asp	Glu	Met	Ala	Ala	
145				150						155					160	
Gln	Gln	Asn	Pro	Leu	Gln	Gln	Pro	Arg	Gly	Arg	Arg	Gly	Leu	Gly	Gln	
			165						170					175		
Arg	Gly	Ser	Ser	Arg	Gln	Gly	Ser	Pro	Gly	Ser	Val	Ser	Lys	Gln	Lys	
			180					185					190			
Pro	Cys	Asp	Leu	Pro	Leu	Arg	Leu	Leu	Val	Pro	Thr	Gln	Phe	Val	Gly	
		195					200					205				
Ala	Ile	Ile	Gly	Lys	Glu	Gly	Ala	Thr	Ile	Arg	Asn	Ile	Thr	Lys	Gln	
	210					215					220					
Thr	Gln	Ser	Lys	Ile	Asp	Val	His	Arg	Lys	Glu	Asn	Ala	Gly	Ala	Ala	
225				230						235					240	
Glu	Lys	Ser	Ile	Thr	Ile	Leu	Ser	Thr	Pro	Glu	Gly	Thr	Ser	Ala	Ala	
			245						250					255		
Cys	Lys	Ser	Ile	Leu	Glu	Ile	Met	His	Lys	Glu	Ala	Gln	Asp	Ile	Lys	
			260					265					270			
Phe	Thr	Glu	Glu	Ile	Pro	Leu	Lys	Ile	Leu	Ala	His	Asn	Asn	Phe	Val	
		275					280					285				
Gly	Arg	Leu	Ile	Gly	Lys	Glu	Gly	Arg	Asn	Leu	Lys	Lys	Ile	Glu	Gln	
	290					295					300					
Asp	Thr	Asp	Thr	Lys	Ile	Thr	Ile	Ser	Pro	Leu	Gln	Glu	Leu	Thr	Leu	
305				310						315					320	
Tyr	Asn	Pro	Glu	Arg	Thr	Ile	Thr	Val	Lys	Gly	Asn	Val	Glu	Thr	Cys	
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Ala Lys Ala Glu Glu Glu Ile Met Lys Lys Ile Arg Glu Ser Tyr Glu
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 Asn Asp Ile Ala Ser Met Asn Leu Gln Ala His Leu Ile Pro Gly Leu
 355 360 365
 Asn Leu Asn Ala Leu Gly Leu Phe Pro Pro Thr Ser Gly Met Pro Pro
 370 375 380
 Pro Thr Ser Gly Pro Pro Ser Ala Met Thr Pro Pro Tyr Pro Gln Phe
 385 390 395 400
 Glu Gln Ser Glu Thr Glu Thr Val His Gln Phe Ile Pro Ala Leu Ser
 405 410 415
 Val Gly Ala Ile Ile Gly Lys Gln Gly Gln His Ile Lys Gln Leu Ser
 420 425 430
 Arg Phe Ala Gly Ala Ser Ile Lys Ile Ala Pro Ala Glu Ala Pro Asp
 435 440 445
 Ala Lys Val Arg Met Val Ile Ile Thr Gly Pro Pro Glu Ala Gln Phe
 450 455 460
 Lys Ala Gln Gly Arg Ile Tyr Gly Lys Ile Lys Glu Glu Asn Phe Val
 465 470 475 480
 Ser Pro Lys Glu Glu Val Lys Leu Glu Ala His Ile Arg Val Pro Ser
 485 490 495
 Phe Ala Ala Gly Arg Val Ile Gly Lys Gly Gly Lys Thr Val Asn Glu
 500 505 510
 Leu Gln Asn Leu Ser Ser Ala Glu Val Val Val Pro Arg Asp Gln Thr
 515 520 525
 Pro Asp Glu Asn Asp Gln Val Val Val Lys Ile Thr Gly His Phe Tyr
 530 535 540
 Ala Cys Gln Val Ala Gln Arg Lys Ile Gln Glu Ile Leu Thr Gln Val
 545 550 555 560
 Lys Gln His Gln Gln Lys Ala Leu Gln Ser Gly Pro Pro Gln Ser
 565 570 575
 Arg Arg Lys

<210> 177
 <211> 401
 <212> DNA
 <213> Homo sapiens

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 cacacagcaa aaaattgttt actttgtttg acaaaccaaa tcagttctca aaaaatgacc 180
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<210> 178
 <211> 561
 <212> DNA
 <213> Homo sapiens

<400> 178

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gcagccaaag acctaactca gtcccctgag gtctcccca caaccatcca ggtgacatac 240
ctcccctcca gtcagaagag taaacgtgcc aagcacttcc ttgaattgaa gagctttaag 300
gataactata acacattgga gagtactctg tgacggagct gaaggactct tgccgtagat 360
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ggcccagcag gccagactg tatccatcca agttcccgtt gtatccagag ttcttagagc 480
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<210> 179

<211> 521

<212> DNA

<213> Homo sapiens

<400> 179

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acgtgagcag tcagcaccag ttctgcacca gcagcgctc cgtcctagtg ggtgttcctg 360
tttctcctgg ccctgggtgg gctagggcct gattcgggaa gatgcctttg cagggagggg 420
aggataagtg ggatctacca attgattctg gcaaaacaat ttctaagatt tttttgcttt 480
atgtgggaaa cagatctaaa tctcatttta tgctgtattt t

```

<210> 180

<211> 417

<212> DNA

<213> Homo sapiens

<400> 180

```

ggtggaattc gccgaagatg gcggaggtgc aggtcctggt gcttgatggt cgaggccatc 60
tcctggggccg cctgggggcc atcgtggcta aacagggtact gctggggccg aagggtggtg 120
tcgtacgctg tgaaggcatc aacatttctg gcaatttcta cagaaacaag ttgaagtacc 180
tggctttcct ccgcaagcgg atgaacacca acccttcccg aggccctac cacttccggg 240
ccccagccg catcttctgg cggaccgtgc gaggtatgct gcccacaaa accaagcgag 300
gccaggccgc tctggaccgt ctcaagggtg ttgacggcat cccaccgcc tacgacaaga 360
aaaagcggat ggtggttcct gctgccctca aggtcgtgcg tctgaagcct acaagaa 417

```

<210> 181

<211> 283

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 35

<223> n = A,T,C or G

<400> 181

```

gatttcttct aaataggatg taaaacttct ttcanattac tcttcctcag tcctgcctgc 60
caagaactca agtgtaactg tgataaaaata acctttccca ggtatattgg caggtatgtg 120

```

```
<210> 182
<211> 401
<212> DNA
<213> Homo sapiens
```

```
<210> 183
<211> 366
<212> DNA
<213> Homo sapiens
```

```
<400> 183
accgtgtcca agttttttaga acccttggtta gccagaccga ggtgtcctgg tcaccgtttc 60
accatcatgc tttgatgttc ccctgtcttt ctctcttctg ctctcaagag caaagggttaa 120
tttaaggaca aagatgaagt cactgtaaac taatctgtca ttgtttttac cttccttttc 180
tttttcagtg cagaaattaa aagtaagtat aaagcaccgt gattgggagt gttttttgctg 240
gtgtcggaat cactggtaaa tgttggctga gaacaatccc tccccttgca cttgtgaaaa 300
cactttgagc gctttaagag attancctga gaaataatta aatatctttt ctcttcaaaa 360
aaaaaa 366
```

```
<210> 184
<211> 370
<212> DNA
<213> Homo sapiens
```

<400> 184						
tcttacttca	aaagaaaaat	aaacataaaa	aataagttgc	tggttcctaa	caggaaaaat	60
tttaataatt	gtactgagag	aaactgctta	cgtacacatt	gcagatcaaa	tatttggagt	120
taaaatgtta	gtctacatag	atgggtgatt	gtaactttat	tgccattaaa	agatttcaaa	180
ttgcattcat	gcttctgtgt	acacataatg	aaaaatgggc	aaataatgaa	gatctctcct	240
tcagtctgct	ctgtttaatt	ctgctgtctg	ctcttctcta	atgctgcgtc	cctaattgta	300
cacagtttag	tgatatctag	gagtataaag	ttgtcgccca	tcaataaaaa	tcacaaagtt	360
ggtttaaaaa						370

<210>	185
<211>	107
<212>	DNA

<213> Homo sapiens

<400> 185

```
ctcatattat tttccttttg agaaattgga aactctttct gttgctatta tattaataaa 60
gttggtgttt attttctggt agtcaccttc cccatttaaa aaaaaaa 107
```

<210> 186

<211> 309

<212> DNA

<213> Homo sapiens

<400> 186

```
gaaaggatgg ctctggttgc cacagagctg ggacttcatg ttcttctaga gagggccaca 60
agagggccac aggggtggcc gggagttgtc agctgatgcc tgctgagagg caggaattgt 120
gccagtgagt gacagtcacg agggagtgtc tcttcttggg gaggaaagaa ggtagagcct 180
ttctgtctga atgaaaggcc aaggctacag tacagggccc cgccccagcc aggggtgtta 240
tgcccacgta gtggaggcct ctggcagatc ctgcattcca aggtcactgg actgtacgtt 300
tttatgggtt 309
```

<210> 187

<211> 477

<212> DNA

<213> Homo sapiens

<400> 187

```
ttcagtccta gcaagaagcg agaattctga gatcctccag aaagtcgagc agcaccacc 60
tccaacctcg ggccagtgtc ttcaggcttt actggggacc tgcgagctgg cctaattgtg 120
tggcctgcaa gccaggccat ccctgggcgc cacagacgag ctccgagcca ggtcaggctt 180
cggaggccac aagctcagcc tcaggcccag gcaactgattg tggcagaggg gccactacc 240
aaggtctagc taggccaag acctagttac ccagacagtg agaagcccct ggaaggcaga 300
aaagttggga gcatggcaga caggggaagg aaacattttc agggaaaaga catgtatcac 360
atgtcttcag aagcaagtca ggtttcatgt aaccgagtgt cctcttgctg gtccaaaagt 420
agcccagggc tgtagcacag gcttcacagt gattttgtgt tcagccgtga gtcacac 477
```

<210> 188

<211> 220

<212> DNA

<213> Homo sapiens

<400> 188

```
taaatatggt agatattaat attcctctta gatgaccagt gattccaatt gtcccaagtt 60
ttaaataagt accctgtgag tatgagataa attagtgaca atcagaacaa gtttcagtat 120
cagatgttca agaggaagtt gctattgcat tgattttaat atttgtacat aaacactgat 180
ttttttgagc attattttgt atttggtgta ctttaataacc 220
```

<210> 189

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 76, 77

<223> n = A,T,C or G

1000700-13001

<400> 189
 accatcttga cagaggatac atgctcccaa aacgtttgtt accacactta aaaatcactg 60
 ccatcattaa gcatcnnttt caaaattata gccattcatg atttactttt tccagatgac 120
 tatcattatt ctagtccttt gaatttgtaa ggggaaaaaa aacaaaaaca aaaacttacg 180
 atgcactttt ctccagcaca tcagatttca aattgaaaat taaagacatg ctatggtaat 240
 gcacttgcta gtactacaca ctttgtacaa caaaaaacag aggcaagaaa caacggaaag 300
 agaaaagcct tcctttgttg gcccttaaac tgagtcaaga tctgaaatgt agagatgatc 360
 tctgacgata cctgtatgtt cttattgtgt aaataaaaatt gctggtatga aatgaca 417

<210> 190
 <211> 497
 <212> DNA
 <213> Homo sapiens

<400> 190
 gcactgcggc gctctcccgt cccgcggtgg ttgctgctgc tgccgctgct gctgggcctg 60
 aacgcaggag ctgtcattga ctggcccaca gaggagggca aggaagtatg ggattatgtg 120
 acgggtccgca aggatgccta catgttctgg tggctctatt atgccaccaa ctctgcaag 180
 aacttctcag aactgcccct ggtcatgtgg cttcagggcg gtccaggcgg ttctagcact 240
 ggatttgga actttgagga aattgggccc cttgacagt atctcaaacc acggaaaacc 300
 acctggctcc aggetgccag tctcctatct gtggataatc ccgtgggcac tgggttcagt 360
 tatgtgaatg gtagtggtgc ctatgccaa gacctggcta tgggtggctt agacatgatg 420
 gttctcctga agaccttctt cagttgccac aaagaattcc agacagttcc attctacatt 480
 ttctcagagt cctatgg 497

<210> 191
 <211> 175
 <212> DNA
 <213> Homo sapiens

<400> 191
 atgttgaata ttttgcttat taactttgtt tattgtcttc tccctcgatt agaataattag 60
 ctacttgagt acaaggattt gagcctgtta cattcactgc tgaatttttag gtccttgga 120
 gataccacgc attcaataga gaccacacaa taaatatatg tcaaataaaa aaaaa 175

<210> 192
 <211> 526
 <212> DNA
 <213> Homo sapiens

<400> 192
 agtaaacatt attatTTTTT ttatatTTTgc aaaggaaaca tatctaattcc ttcttataga 60
 aagaacagta ttgctgtaat tccttttctt ttcttctca tttcctctgc cccttaaaag 120
 attgaagaaa gagaaacttg tcaactcata tccacgttat ctagcaaagt acataagaat 180
 ctatcactaa gtaatgtatc cttcagaatg tgttggttta ccagtgcac cccatattca 240
 tcacaaaatt aaagcaagaa gtccatagta atttatTTTgc taatagtgga tttttaatgc 300
 tcagagtttc tgagggtcaa ttttatcttt tcaacttcaa gctctatgat cttaaataat 360
 ttacttaatg tatTTTgggtg tattttcctc aaattaatat tgggtgttcaa gactatatct 420
 aattcctctg atcactttga gaaacaaact tttattaaat gtaaggcact tttctatgaa 480
 ttttaaatat aaaaataaat attgttctga ttattactga aaaaaa 526

<210> 193
 <211> 553

```
<220>  
<221> misc_feature  
<222> 290, 300, 411, 441  
<223> n = A,T,C or G
```

```
<210> 194
<211> 320
<212> DNA
<213> Homo sapiens
```

```
<210> 195
<211> 320
<212> DNA
<213> Homo sapiens
```

```
<400> 195
aagcatgacc tggggaaatg gtcagacctt gtattgtgtt tttggccttg aaagtagcaa 60
gtgaccagaa tctgccatgg caacaggcctt taaaaaagac ccttaaaaag aactgtcttc 120
aactgtggtg ttagcaccag ccagctctct gtacatttgc tagcttgtag ttttctaaga 180
ctgagtaaac ttcttatttt tanaaagggg aggctggntt gtaactttcc ttgtacttaa 240
ttgggtaaaa gtctttttcca caaaccacca tctattttgt gaactttgtt agtcatcttt 300
tatttggtaa attatgaact                                     320
```

<210>	196
<211>	357
<212>	DNA

<210> 199

$\langle 400 \rangle$ 202

```
<210> 203
<211> 261
<212> DNA
<213> Homo sapiens
```

```
<400> 203
gacaagctcc  tgggtcttgag  atgtcttctc  gttaangaga  tgggcctttt  ggaggtaaag  60
gataaaatga  atgagttctg  tcatgattca  ctattntata  acttgcattga  cctttactgt  120
gttagctctt  tgaatgttct  tgaaatttta  gactttcttt  gtaaacaaat  gatatgtcct  180
tatcattgta  taaaagctgt  tatgtgcaac  agtgtggaga  ttccttgtct  gatttaataa  240
aataacttaaa  cactgaaaaa  a                                     261
```

<400> 204						
agcatctttt	ctacaacgtt	aaaattgcag	aagtagctta	tcattaaaaa	acaacaacaa	60
caacaataac	aataaatcct	aagtgtaaat	cagttattct	acccctacc	aaggatatca	120
gcctgttttt	tccctttttt	ctcctgggaa	taattgtggg	cttcttccca	aatttctaca	180
gcctctttcc	tcttctcatg	cttgagcttc	cctgtttgca	cgcattgcgtg	tgcaggactg	240
gcttgtgtgc	ttggactcgg	ctccaggtgg	aagcatgctt	tcccttgttt	ctggttgaga	300
aactcaaacc	ttcaagccct	aggtgtagcc	attttgtcaa	gtcatcaact	gtatttttgt	360
actggcatta	acaaaaaaag	aagataaaat	attgtaccat	taaactttta	taaaacttta	420
a						421

```
<400> 205
tactctcaca atgaaggacc tggaatgaaa aatctgtgtc taaacaagtc ctcttttagat 60
tttagtgcaa atccagagcc agcgtcggtt gcctcgagta attcttttcacat ggggtaccttt 120
ggaaaagctc tcaggagacc tcacctagat gcctattcaa gcttttgaca gccatcagat 180
tgtcagccaa gagcctttta tttgaaagct cattcttccc cagacttgga ctctgggtca 240
gaggaagatg ggaaagaaaag gacagatttt caggaagaaa atcacatttg taccttttaa 300
cagacttttag aaaactacag gactccaaat tttcagtctt atgacttgga cacatagact 360
```

```
<210> 206
<211> 481
<212> DNA
<213> Homo sapiens
```

```
<210> 207
<211> 605
<212> DNA
<213> Homo sapiens
```

```
<210> 208
<211> 655
<212> DNA
<213> Homo sapiens
```

<400> 208						
ggcgttggttc	tggattcccg	tcgtaactta	aagggaaact	ttcacaatgt	cgggagccct	60
tgatgtcctg	caaatgaagg	aggaggatgt	ccttaagttc	cttgcagcag	gaaccactt	120
aggtggcacc	aatcttgact	tccagatgga	acagtacatc	tataaaagga	aaagtgatgg	180
catctatatc	ataaatctca	agaggacctg	ggagaagctt	ctgctggcag	ctcgtgcaat	240
tgttgccatt	gaaaaccctg	ctgatgtcag	tgttatatcc	tccaggaata	ctggccagag	300
ggctgtgctg	aagtttgctg	ctgccactgg	agccactcca	attgctggcc	gcttcactcc	360
tggaaccttc	actaaccaga	tccaggcagc	cttccggggag	ccacggcttc	ttgtgggttac	420
tgaccccagg	gctgaccacc	agcctctcac	ggaggcatct	tatgttaacc	tacctaccat	480
tgcgctgtgt	aacacagatt	ctcctctgcg	ctatgtggac	attgccatcc	catgcaacaa	540
caagggagct	cactcagtgg	gtttgatgtg	gtggatgctg	gctcgggaag	ttctgcgcac	600
gcgtggcacc	atttcccgtg	aacacccatg	ggaggtcatg	cctgatctgt	acttc	655

<210> 209
 <211> 621
 <212> DNA
 <213> Homo sapiens

<400> 209
 catttagaac atgggttatca tccaagacta ctctaccctg caacattgaa ctcccaagag 60
 caaatccaca ttctctttga gttctgcagc ttctgtgtaa atagggcagc tgcgtctat 120
 gccgtagaat cacatgatct gaggaccatt catggaagct gctaaatagc ctagtctggg 180
 gagtcttcca taaagttttg catggagcaa acaaacagga ttaaactagg ttggttcct 240
 tcagccctct aaaagcatag ggcttagcct gcaggcttcc ttgggctttc tctgtgtgtg 300
 tagttttgta aacactatag catctgttaa gatccagtgt ccatggaaac cttcccacat 360
 gccgtgactc tggactatat cagtttttgg aaagcagggg tcctctgcct gctaacaagc 420
 ccacgtggac cagtctgaat gtcttttcctt tacacctatg tttttaaata gtcaaacttc 480
 aagaaacaat ctaaacaagt ttctgttgca tatgtgtttg tgaacttgta tttgtattta 540
 gtaggcttct atattgcatt taacttgttt ttgtaactcc tgattcttcc ttttcggata 600
 ctattgatga ataaagaaat t 621

<210> 210
 <211> 533
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 20, 21, 61
 <223> n = A,T,C or G

<400> 210
 cgccttgagg agccggcggn ngagtccggg acgtggagac ccgggggtccc ggcagccggg 60
 nggcccgcgg gccaggggtg gggatgcacc gccgcggggg gggagctggc gccatcgcca 120
 agaagaaact tgcagaggcc aagtataagg agcgagggac ggtcttggct gaggaccagc 180
 tagcccagat gtcaaagcag ttggacatgt tcaagaccaa cctggaggaa tttgccagca 240
 aacacaagca ggagatccgg aagaatcctg agttccgtgt gcagttccag gacatgtgtg 300
 caaccattgg cgtggatccg ctggcctctg gaaaaggatt ttggtctgag atgctgggag 360
 tgggggactt ctattacgaa ctagggtgtcc aaattatcga agtgtgcctg gcgctgaagc 420
 atcggaatgg aggtctgata actttggagg aactacatca acaggtgttg aagggaaggg 480
 gcaagttcgc ccaggatgtc agtcaagatg acctgatcag agccatcaag aaa 533

<210> 211
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 211
 ttagcttgag ccgagaacga ggcgagaaag ctggagaccg aggagaccgc ctagagcgga 60
 gtgaacgggg aggggaccgt ggggaccggc ttgatcgtgc gcggacacct gctaccaagc 120
 ggagcttcag caaggaagtg gaggagcgga gtagagaacg gccctcccag cctgaggggc 180
 tgcgcaaggc agctagcctc acggaggatc gggaccgtgg gcgggatgcc gtgaagcgag 240
 aagctgccct acccccagtg agccccctga aggcggctct ctctgaggag gagttagaga 300
 agaaatccaa ggctatcatt gaggaatata tccatctcaa tgacatgaaa gaggcagtcc 360
 agtgcgtgca ggagctggcc tcaccctcct tgctcttcat ctttgtacgg catggtgtcg 420
 agtctacgct ggagcgcagt gccattgctc g 451

```
<220>
<221> misc_feature
<222> 54
<223> n = A,T,C or G
```

```
<210> 213
<211> 511
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 27, 63, 337, 442
<223> n = A,T,C or G
```

```
<210> 214
<211> 521
<212> DNA
<213> Homo sapiens
```

```
<400> 214
agcattgccca aataatccct aattttccac taaaaatata atgaaatgat gttaagcttt 60
ttgaaaagtt taggttaaac ctactgttgt tagattaatg tatttgttgc ttccctttat 120
ctggaatgtg gcattagctt ttttatttta accctcttta attcttattc aattccatga 180
cttaagggttg gagagctaaa cactgggatt tttggataac agactgacag ttttgcataa 240
ttataatcgg cattgtacat agaaaggata tggctacctt ttgtttaaate tgcactttct 300
aaatatcaaa aaaggqaaat qaagtataaa tcaattttttg tataatctgt ttgaaacatg 360
```

```
<210> 215
<211> 381
<212> DNA
<213> Homo sapiens
```

<400> 215						
gagcggagag	cggacengtn	agagccctga	gcagccccac	cgccgcccgc	ggcctagttn	60
ncatcacacc	ccgggaggag	ccgcagctgc	cgcagccggc	cccagtcacc	atcaccgcaa	120
ccatgagcag	cgaggccgag	accagcagc	cgcccgcgc	cccccccgcc	gcccccgccc	180
tcagcgcgc	cgacaccaag	cccggcacta	cgggcagcgg	cgcagggagc	ggtggcccgg	240
gcggcctcac	atcggcgggc	cctgccggcg	gggacaagaa	ggtcatcgca	acgaaggttt	300
tgggaacagt	aaaatggttc	aatgtaagga	acggatatgg	tttcatcaac	aggaatgaca	360
ccaangaaga	tgtattttgt	c				381

```
<210> 216
<211> 425
<212> DNA
<213> Homo sapiens
```

<400> 216						
ttactaacta	ggtcattcaa	ggaagtcaag	ttaacttaaa	catgtcacct	aatgcactt	60
gatgggtgttg	aaatgtccac	cttcttaa	ttttaagatg	aacttagttc	taaagaagat	120
aacaggccaa	tcctgaaggt	actccctg	tgctgcagaa	tgtcagatat	tttggatgtt	180
gcataagagt	cctat	ccagttaatt	caactttt	ctgcctgtt	tgtggactgg	240
ctggctctgt	tagaactctg	tccaaaaagt	gcatggaata	taacttgtaa	agcttcccac	300
aattgacaat	atatatgcat	gtgtttaa	caaatccaga	aagcttaaac	aatagagctg	360
cataatagta	tttattaaag	aatcacaact	gtaaacatga	gaataactta	aggattctag	420
tttag						425

```
<210> 217
<211> 181
<212> DNA
<213> Homo sapiens
```

```
<400> 217
gagaaaccaa atgatagggt gtagagcctg atgactccaa acaaagccat caccgcgatt 60
cttcctcctt cttctggtgc tacagctcca agggcccttc accttcatgt ctgaaatgga 120
actttggctt tttcagtgga agaatatggt gaaggtttca ttttgttcta gaaaaaaaaa 180
a 181
```

```
<210> 218
<211> 405
<212> DNA
<213> Homo sapiens
```

<400> 218
 caggccttcc agttcactga caaacatggg gaagtgtgcc cagctggctg gaaacctggc 60
 agtgatacca tcaagcctga tgtccaaaag agcaaagaat atttctccaa gcagaagtga 120
 gcgctgggct gtttttagtgc caggctgcgg tgggcagcca tgagaacaaa acctcttctg 180
 tatttttttt ttccattagt aaaacacaag acttcagatt cagccgaatt gtggtgtctt 240
 acaaggcagg cctttcctac aggggggtgga gagaccagcc tttcttcctt tggtaggaat 300
 ggcttgagtt ggcgttgtgg gcaggctact ggtttgtatg atgtattagt agagcaaccc 360
 attaattctt tgtagtttgt attaaacttg aactgagaaa aaaaa 405

<210> 219
 <211> 216
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 207, 210
 <223> n = A,T,C or G

<400> 219
 actccaagag ttagggcagc agagtggagc gatttagaaa gaacatttta aaacaatcag 60
 ttaatttacc atgtaaaatt gctgtaaatg ataatgtgta cagattttct gttcaaatat 120
 tcaattgtaa acttcttgtt aagactgtta cgtttctatt gcttttgtat gggatattgc 180
 aaaaataaaa aggaaagaac cctcttnaan aaaaaa 216

<210> 220
 <211> 380
 <212> DNA
 <213> Homo sapiens

<400> 220
 cttacaaatt gcccccatgt gtaggggaca cagaaccctt tgagaaaact tagatttttg 60
 tctgtacaaa gtctttgcct ttttccttct tcattttttt ccagtacatt aaatttgtca 120
 atttcatctt tgaggggaaac tgattagatg gggtgtgttt gtgttctgat ggagaaaaca 180
 gcacccaag gactcagaag atgattttta cagttcagaa cagatgtgtg caatattggg 240
 gcatgtaata atgttgagtg gcagtcaaaa gtcattgatt ttatcttagt tcttcattac 300
 tgcattgaaa aggaaaacct gtctgagaaa atgcctgaca gtttaattta aaactatggg 360
 gtaagtcttt gacaaaaaaa 380

<210> 221
 <211> 398
 <212> DNA
 <213> Homo sapiens

<400> 221
 ggtagtaag ctgtcgactt tgtaaaaaag ttaaaaatga aaaaaaaagg aaaaatgaat 60
 tgtatattta atgaatgaac atgtacaatt tgccactggg aggaggttcc tttttgttgg 120
 gtgagtctgc aagtgaattt cactgatgtt gatattcatt gtgtgtagtt ttatttcggg 180
 cccagccccg tttcctttta ttttgagact aatgccagct gcgtgtctag ttttgagtgc 240
 agtaaaatag aatcagcaaa tcactcttat ttttcattct tttccggtat tttttgggtt 300
 gtttctgtgg gagcagtgtg caccaactct tcctgtatat tgcctttttg ctggaaaatg 360
 ttgtatgttg aataaaattt tctataaaaa ttaaaaaa 398

<210> 222

```
<220>  
<221> misc_feature  
<222> 49, 64  
<223> n = A,T,C or G
```

```
<210> 223
<211> 200
<212> DNA
<213> Homo sapiens
```

```
<210> 224
<211> 385
<212> DNA
<213> Homo sapiens
```

```
<210> 225
<211> 560
<212> PRT
<213> Homo sapiens
```

```
<400> 225
Met Glu Cys Leu Tyr Tyr Phe Leu Gly Phe Leu Leu Leu Ala Ala Arg
 1              5              10              15
Leu Pro Leu Asp Ala Ala Lys Arg Phe His Asp Val Leu Gly Asn Glu
      20              25              30
Arg Pro Ser Ala Tyr Met Arg Glu His Asn Gln Leu Asn Gly Trp Ser
      35              40              45
```

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1007700710071

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gacctctcgc	gcctccaact	cagctgtgcc	cccagccact	gtggaagcct	ttgtggaaag	6840
agacagcctc	cattttcctc	atcctgtgat	gatttatgcc	aatgtgaaac	agggatttta	6900
tcccattctt	aatgccactg	tcactgccac	agttgagcca	gagactggag	atcctgttac	6960
gctgagactc	cttgatgatg	gagcaggtgc	tgatgttata	aaaaatgatg	gaatttactc	7020
gaggtatttt	ttctcctttg	ctgcaaatgg	tagatatagc	ttgaaagtgc	atgtcaatca	7080
ctctcccagc	ataagcacc	cagccactc	tattccaggg	agtcatgcta	tgtatgtacc	7140
aggttacaca	gcaaacggta	atattcagat	gaatgctcca	aggaaatcag	taggcagaaa	7200
tgaggaggag	cgaaagtggg	gctttagccg	agtcagctca	ggaggctcct	tttcagtgtc	7260
gggagttcca	gctggcccc	accctgatgt	gtttccacca	tgcaaaatta	ttgacctgga	7320
agctgtaaaa	gtagaagagg	aattgacct	atcttgga	gcacctggag	aagactttga	7380
tcagggccag	gctacaagct	atgaaataag	aatgagtaaa	agtctacaga	atatccaaga	7440
tgactttaac	aatgctat	tagtaaatac	atcaaagcga	aatcctcagc	aagctggcat	7500

```

cagggagata tttacgttct caccceaaat ttccacgaat ggacctgaac atcagccaaa 7560
tggagaaaca catgaaagcc acagaattta tgttgcaata cgagcaatgg ataggaactc 7620
cttacagtct gctgtatcta acattgccca ggcgctcttg tttattcccc ccaattctga 7680
tcctgtacct gccagagatt atcttatatt gaaaggagtt ttaacagcaa tgggtttgat 7740
aggaatcatt tgccttatta tagttgtgac acatcatact ttaagcagga aaaagagagc 7800
agacaagaaa gagaatggaa caaaattatt ataatgaatt ctgcagatat ccatcacact 7860
ggcggccgct cgagcaccac caccaccacc actgagatcc ggctgctaac aaagcccgaa 7920
aggaagctga gttggctgct gccaccgctg agcaataact agcataaccc cttggggcct 7980
ctaaacgggt cttgaggggt tttttgctga aaggaggaac tatatccgga t 8031

```

```

<210> 255
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 9, 67, 247, 275, 277, 397
<223> n = A,T,C or G

```

```

<400> 255
gtggccagng actagaaggc gaggcgcccgc gggaccatgg cggcggcggc ggacgagcgg 60
agtccanagg acggagaaga cgaggaagag gaggagcagt tggttctggt ggaattatca 120
ggaattattg attcagactt cctctcaaaa tgtgaaaata aatgcaagg tttgggcatt 180
gacactgaga ggccattctt gcaagtggac agctgtgtct ttgctgggga gtatgaagac 240
actctangga cctgtgttat atttgaagaa aatgntnaac atgctgatac agaaggcaat 300
aataaaacag tgctaaaata taaatgccat acaatgaaga agctcagcat gacaagaact 360
ctcctgacag agaagaagga aggagaagaa aacatangtg g 401

```

```

<210> 256
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 7, 37, 51, 79, 96, 98, 103, 104, 107, 116, 167, 181, 183,
194, 206, 276, 303, 307, 308, 310, 323, 332, 341, 353, 374,
376
<223> n = A,T,C or G

```

```

<400> 256
tgggtggnct gggatgggga accgcggtgg cttccngnga ggtttcggca ntggcatccg 60
gggccgggggt cgcggccgng gacggggccg gggccnangc cgnnganctc gcggangcaa 120
ggccgaggat aaggagtgga tgcccgtcac caacttgggc cgcttgncca aggacatgaa 180
nancagccc ctgnaggaga tctatntctt cttccctgcc ccattaagga atcaagagat 240
catttgattt cttcctgggg gcctctctca aggatnaggt ttttgaagat tatgccagtg 300
canaaannan accccgttgc ccngtccatc tncacccaac ncttccaagg gcnatttttg 360
tttaggcctc attncngggg ggaaccttaa cccaatttgg g 401

```

```

<210> 257
<211> 401

```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 382, 387
<223> n = A,T,C or G

<400> 257
atgtatgtaa aacacttcat aaaatgtaaa gggctataac aaatatgtta taaagtgatt 60
ctctcagccc tgaggtatac agaatcattt gcctcagact gctgttggat tttaaaattt 120
ttaaaatatc tgctaagtaa tttgctatgt cttctccac actatcaata tgcctgcttc 180
taacaggctc ccacttttct tttaatgtgc tgttatgagc tttggacatg agataaccgt 240
gcctgttcag agtgtctaca gtaagagctg gacaaactct ggaggacac agtctttgag 300
acagctcttt tggttgcttt ccacttttct gaaaggttca cagtaacctt ctagataata 360
gaaactccca gttaaagcct angctancaa ttttttttag t 401

<210> 258
<211> 401
<212> DNA
<213> Homo sapiens

<400> 258
ggagcgctag gtcggtgtac gaccgagatt aggggtgcgtg ccagctccgg gaggccgcgg 60
tgagggggccg ggcccaagct gccgacccga gccgatcgtc agggtcgcca gcgcctcagc 120
tctgtggagg agcagcagta gtcggagggt gcaggatatt agaaatggct actccccagt 180
caattttcat ctttgcaatc tgcattttta tgataacaga attaattctg gcctcaaaaa 240
gctactatga tatcttaggt gtgccaaaat cggcatcaga gcgccaaatc aagaaggcct 300
ttcacaagtt ggccatgaag taccaccctg acaaaaataa gaccagatg ctgaagcaaa 360
attcagagag attgcagaag catatgaaac actctcagat g 401

<210> 259
<211> 401
<212> DNA
<213> Homo sapiens

<400> 259
attgggtttg gagggaggat gatgacagag gaatgccctt tggccatcac ggtttttgatt 60
ctccagaata ttgtgggttt gatcatcaat gcagtcatgt taggctgcat tttcatgaaa 120
acagctcagg ctacagaag ggcagaaact ttgattttca gccgccatgc tgtgattgcc 180
gtccgaaatg gcaagctgtg cttcatgttc cgagtgggtg acctgaggaa aagcatgatc 240
attagtgcct ctgtgcgcat ccagggtgtc aagaaaacaa ctacacctga aggggagggtg 300
gttcctattc accaactgga cattcctgtt gataacccaa tcgagagcaa taacattttt 360
ctgggtggccc ctttgatcat ctgccacgtg attgacaagc g 401

<210> 260
<211> 363
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 7, 9, 19, 41, 63, 73, 106, 111, 113, 116, 119, 156, 158,
162, 187, 247, 288, 289, 290, 292, 298, 299, 300, 340

<220>
 <221> misc_feature
 <222> 232, 290, 304, 326, 383
 <223> n = A,T,C or G

<400> 263
 ctgtccgacc aagagaggcc ggccgagccc gaggcttggg cttttgcttt ctggcggagg 60
 gatctgcggc ggtttaggag gcggcgctga tcctgggagg aagaggcagc tacggcggcg 120
 gcggcggtgg cggctagggc ggccggcgaat aaagggggccg ccgcccgggtg atgcggtgac 180
 cactgcggca ggcccaggag ctgagtgggc cccggccctc agcccgtccc gncggacccg 240
 ctttcctcaa ctctccatct tctcctgccg accgagatcg ccgaggcggn ctcaggctcc 300
 ctanccctt ccccgtcctt tccccncccc cgteccccgcc ccggggggccg ccgccacccg 360
 cctcccacca tggctctgaa ganaatccac aaggaattga a 401

<210> 264
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 264
 aacaccagcc actccaggac ccctgaaggc ctctaccagg tcaccagtgt tctgcgccta 60
 aagccacccc ctggcagaaa cttcagctgt gtgttctgga atactcacgt gagggaaactt 120
 actttggcca gcattgacct tcaaagtcag atggaaccca ggacccatcc aacttggctg 180
 cttcacattt tcatcccctc ctgcatcatt gctttcattt tcatagccac agtgatagcc 240
 ctaagaaaac aactctgtca aaagctgtat tcttcaaaag acacaacaaa aagacctgtc 300
 accacaacaa agagggaagt gaacagtgtc gtgaatctga acctgtgggtc ttgggagcca 360
 ggggtgacctg atatgacatc taaagaagct tctggactct g 401

<210> 265
 <211> 271
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 59
 <223> n = A,T,C or G

<400> 265
 gccacttcct gtggacatgg gcagagcgct gctgccagtt cctggtagcc ttgaccacna 60
 cgctgggggg tctttgtgat ggtcatgggt ctcatttgca cttgggggtg tgggattcaa 120
 gttagaagtt tctagatctg gccgggcgca gtggctcaca cctgtaatcc cagcacttta 180
 ggaggctgag gcaggcggat catgaggta ggagatcgag accgtcctgg ctaacacagt 240
 gaaaccccg tctactaaa aatacaaaaa a 271

<210> 266
 <211> 401
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 45
 <223> n = A,T,C or G

<400> 266
 attcataaat ttagctgaaa gatactgatt caatttgtat acagngaata taaatgagac 60
 gacagcaaaa ttttcatgaa atgtaaaata tttttatagt ttgttcatac tatatgaggt 120
 tctattttaa atgactttct ggatttttaa aaattttctt aaatacaatc atttttgtaa 180
 tatttatatt atgcttatga tctagataat tgcagaatat cattttatct gactctgtct 240
 tcataagaga gctgtggccg aattttgaac atctgttata gggagtgatc aaattagaag 300
 gcaatgtgga aaaacaattc tgggaaagat ttctttatat gaagtccttg ccactagcca 360
 gccatcctaa ttgatgaaag ttatctgttc acaggcctgc a 401

<210> 267
 <211> 401
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 116, 247, 277, 296, 307, 313, 322, 323, 336, 342, 355, 365,
 377, 378, 397
 <223> n = A,T,C or G

<400> 267
 gaagaggcat cacctgatcc cggagacctt tggagttaag aggcggcgga agcgagggcc 60
 tgtggagtcg gatcctcttc ggggtgagcc agggtcggcg cgcgcgctg tctcanaact 120
 catgcagctg ttcccgcgag gcctgtttga ggacgcgctg ccgccatcg tgctgaggag 180
 ccaggtgtac agccttgtgc ctgacaggac cgtggccgac cggcagctga aggagcttca 240
 agagcanggg gagacaaaat cgtccagctg ggcttcnact tggatgcca tggaanttat 300
 tctttcnctt ganggactta cnngggaccc aagaanccct tncaaggggc ccttngtgga 360
 tgggncccga aacccnnta tttgcccttg ggggggncca a 401

<210> 268
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 268
 tcgccatgtt ggccaggctg gtcttgaact cctgacttta agtgatccac ccgcctcaac 60
 ctcccaaagt gctgggatta cagggtgtgag ccaccgcgcc tggcctgata catactttta 120
 gaatcaagta gtcacgcact ttttctgttc atttttctaa aaagtaaata taaaatgtt 180
 ttgttttttg ttttttttgt ttgtttgttt ctgttttttt ttt 223

<210> 269
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 269
 actatgtaaa ccacattgta ctttttttta ctttggcaac aaatatttat acatacaaga 60
 tgctagtcca tttgaatatt tctcccaact tatccaagga tctccagctc taacaaaatg 120
 gtttatTTTT atttaaatgt caatagtgtt tttttaaaat ccaaatacaga ggtgcaggcc 180
 accagttaaa tgccgtctat caggttttgt gccttaagag actacagagt caaagctcat 240
 ttttaaagga gtaggacaaa gttgtcacag gtttttggtt ttgttttttat tgcccccaaa 300
 attacatgtt aatttccatt tatatcaggg attctattta cttgaagact gtgaagttgc 360
 cattttgtct cattgttttc tttgacataa ctaggatcca t 401

```
<220>  
<221> misc_feature  
<222> 240, 382  
<223> n = A,T,C or G
```

```
<210> 271
<211> 329
<212> DNA
<213> Homo sapiens
```

```
<210> 272
<211> 401
<212> DNA
<213> Homo sapiens
```

```
<221> misc_feature
<222> 341, 342, 343, 345, 346, 351, 358, 360, 362, 363, 387, 390,
392
<223> n = A,T,C or G
```

```
<400> 272
nggctgntaa cntcggaggt nacttcctgg actatcctgg agacccctc cgcttccacg 60
nncatnatat cntcatngc tgggcccntn angacacnat cccactccaa cacctgngng 120
```

```

atgctggncn cctnggaacc anentcagaa ngaccctgnt cntntgtntt ccgcaanctg 180
aagnnaangc gggntacacc tnentgcant ggnccacnct gcngggaact ntacacacct 240
acgggatgtg gctgcgccan gagccaagag cntttctgga tgattcccca gcctcttggn 300
agggantcta caacattgct nnntacctt ntccnnncgc nnntnntgga ntacaggngn 360
tnntaacact acatcttttt tactgcncn tncttggtgg g 401

```

<210> 273

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 399

<223> n = A,T,C or G

<400> 273

```

cagcaccatg aagatcaaga tcatcgcacc cccagagcgc aagtactcgg tgtggatcgg 60
tggtccatc ctggcctcac tgtccacctt ccagcagatg tggattagca agcaggagta 120
cgacgagtcg ggcccctcca tcgtccaccg caaatgcttc taaacggact cagcagatgc 180
gtagcatttg ctgcatgggt taattgagaa tagaaatttg cccctggcaa atgcacacac 240
ctcatgctag cctcacgaaa ctggaataag ccttcgaaaa gaaattgtcc ttgaagcttg 300
tatctgatat cagcactgga ttgtagaact tggtgctgat tttgacctg tattgaagtt 360
aactgttccc cttggtatta acgtgtcagg gctgagtgt c 401

```

<210> 274

<211> 401

<212> DNA

<213> Homo sapiens

<400> 274

```

ccaccacac ccaccgcgcc ctcggttcgcc tcttctccgg gagecagtc gcgccaccgc 60
cgccgcccag gccatcgcca cctccgcag ccatgtccac caggtccgtg tcctcgtcct 120
cctaccgcag gatgttcggc ggcccgggca ccgcgagccg gccgagctcc agccggagct 180
acgtgactac gtccaccgc acctacagcc tgggcagcgc gctgcgccc agcaccagcc 240
gcagcctcta cgcctcgtcc ccgggcggcg tgtatgccac gcgctcctct gccgtgcgcc 300
tgccgagcag cgtgcccggg gtgcccgtcc tgcaggactc ggtggacttc tcgctggccg 360
acgccatcaa caccgagttc aagaacaccc gcaccaacga g 401

```

<210> 275

<211> 401

<212> DNA

<213> Homo sapiens

<400> 275

```

ccacttccac cactttgtgg agcagtgcct tcagcgcac ccggatgcc ggtatccctg 60
ctggcctggg cctgggcttc gggagagcag aggggtgctca ggagggtgta gccagggtgt 120
gaagggactt acctcccaa ggttctgcag gggaatctgg agctacacac aggagggatc 180
agctcctggg tgtgtcagag gccagcctgg ggagctctgg cactgcttc ccatgagctg 240
agggagaggg agaggggacc cgaggctgag gcataagtgg caggatttcg ggaagctggg 300
gacacggcag tgatgctgcg gtctctcctc ccctttccct ccaggcccag tgccagcacc 360
ctcctgaacc actctttctt caagcagatc aagcgacgtg c 401

```

<210> 276

<211> 401
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 11
 <223> n = A,T,C or G

<400> 276
 tctgatattg ntacccttga gccacctaag ttagaagaaa ttggaaatca agaagttgtc 60
 attggttgaag aagcacagag ttcagaagac tttaacatgg gctcttcctc tagcagccag 120
 tatactttct gtcagccaga aactgtatct tcatctcagc ctagtgatga tgaatcaagt 180
 agtgatgaaa ccagtaatca gccagtcct gccttttagac gacgccgtgc taggaagaag 240
 accgtttctg cttcagaatc tgaagaccgg ctagttggtg aacaagaaac tgaaccttct 300
 aaggagttga gtaaacgtca gttcagtagt ggtctcaata agtgtgttat acttgctttg 360
 gtgattgcaa tcagcatggg atttggccat ttctatggca c 401

<210> 277
 <211> 401
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 227, 333
 <223> n = A,T,C or G

<400> 277
 aactttggca acatatctca gcaaaaacta cagctatggt attcatgcc aataaaaagc 60
 tgtgcagagg agtggctgca atgaggtcac aacgggtggt gatgtaaaag agatcttcaa 120
 gtctcatca cccatccctc gaactcaagt cccgctcatt acaaattctt cttgccagt 180
 tccacacatc ctgccccatc aagatgttct catcatgtgt tacgagnggc gctcaaggat 240
 gatgcttctt gaaaattgct tagttgaaaa atggagagat cagcttagta aaagatccat 300
 acagtgggaa gagaggctgc aggaacagcg ganaacagtt caggacaaga agaaaacagc 360
 cgggcgcacc agtcgtagta atccccccaa accaaaggga a 401

<210> 278
 <211> 401
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 322, 354
 <223> n = A,T,C or G

<400> 278
 aatgagtggt agaccacaaa tgaatgccgg gaggatgaaa tgtgttgga ttatcatggc 60
 ggcttccgtt gttatccacg aaatccttgt caagatccct acattctaac accagagaac 120
 cgatgtgttt gccagtcctc aaatgccatg tgccgagaa tgccccagtc aatagtctac 180
 aaatacatga gcatccgatc tgataggtct gtgccatcag acatcttcca gatacaggcc 240
 acaactatct atgccaacac catcaatact ttctcgatta aatctggaaa tgaaaatgga 300
 gagtctacct acgacaacaa anccctgtaa gtgcaatgct tgtgctcgtg aagncattat 360

401

```
<220>  
<221> misc_feature  
<222> 30, 35, 81, 88, 180, 212, 378, 384, 391  
<223> n = A,T,C or G
```

```
<210> 280
<211> 326
<212> DNA
<213> Homo sapiens
```

```
<210> 281
<211> 374
<212> DNA
<213> Homo sapiens
```

```
<210> 282
<211> 404
<212> DNA
<213> Homo sapiens
```

 $\langle 220 \rangle$

<221> misc_feature
 <222> 26, 27, 51, 137, 180, 222
 <223> n = A,T,C or G

<400> 282
 agtgtggtgg aattccccgca tcctanncgc cgactcacac aaggcagagt ngccatggag 60
 aaaattccag tgtcagcatt cttgctcctt gtggccctct cctacactct ggccagagat 120
 accacagtca aacctgnagc caaaaaggac acaaaggact ctcgacccaa actgccccan 180
 accctctcca gaggttgggg tgaccaactc atctggactc anacatatga agaagctcta 240
 tataaatcca agacaagcaa caaaccttg atgattattc atcacttgga tgagtgccca 300
 cacagtcaag ctttaaagaa agtgtttgct gaaaataaag aaatccagaa attggcagag 360
 cagtttgtcc tcctcaatct ggtttatgaa acaactgaca aaca 404

<210> 283
 <211> 184
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26
 <223> n = A,T,C or G

<400> 283
 agtgtggtgg aattcacttg cttaanttgt gggcaaaaga gaaaaagaag gattgatcag 60
 agcattgtgc aatacagttt cattaactcc ttccctcgct cccccaaaaa tttgaatttt 120
 tttttcaaca ctcttacacc tggtatggaa aatgtcaacc tttgtaagaa aaccaaata 180
 aaaa 184

<210> 284
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 147, 149
 <223> n = A,T,C or G

<400> 284
 ctattaatcc tgccacaata tttttaatta cgtacaaaga tctgacatgt caccagggga 60
 cccatttcac ccactgctct gtttgccgc cagtcttttg tctctctctt cagcaatggg 120
 gaggcggata ccctttcctc ggggaanana aatccatggg ttgttgcct tgccaataac 180
 aaaaatggtg gaaagtcgag tggcaaagct gttgccattg gcatctttca cgtgaaccac 240
 gtcaaaagat ccagggtgcc tctctctggt ggtgatcaca ccaattcttc ctaggttagc 300
 acctccagtc accatacaca gggtaccagt gtcgaacttg atgaaatcag taatcttgcc 360
 agtctctaaa tcaatctgaa tggatatcatt caccttgatg aggggatcgg ggtagcggat 420
 g 421

<210> 285
 <211> 361
 <212> DNA
 <213> Homo sapiens

<223> n = A, T, C or G

ctgggtggtgta	actcttttatt	tcattgtccg	gaanaaagat	gggagtggga	acaggggtgga	60
cactgtgcag	gcttcagctt	ccactccggg	caggattcag	gctatctggg	accgcagggga	120
ctgccaggtg	cacagccctg	gctcccagag	caggcaggca	aggtgacggg	actggaagcc	180
cttttcanag	ccttggagga	gctggtccgt	ccacaagcaa	tgagtgccac	tctgcagttt	240
gcaggggatg	gataaacagg	gaaacactgt	gcattcctca	cagccaacag	tgtaggtctt	300
ggtgaagccc	cggcgctgag	ctaagctcag	gctgttccag	ggagccacga	aactgcaggt	360
a						361

<213> Homo sapiens

 $\langle 223 \rangle$ n = A, T, C or G

tttgagtggc	agcgccttta	tttgtggggg	ccttcaaggn	agggtcgtgg	ggggcagcgg	60
ggaggaanag	ccganaaact	gtgtgaccgg	ggcctcaggt	ggtggggcatt	gggggctcct	120
cttgcanatg	cccattggca	tcaccgggtgc	agccattggg	ggcagcgggt	accggtcctt	180
tcttgttcaa	catagggtag	gtggcagcca	cgggtccaac	tcgcttgagg	ctggggccctg	240
ggcgctccat	tttgtgttcc	angagcatgt	ggttctgtgg	cgggagcccc	acgcaggccc	300
tgaqgatgtt	ctcgatgcag	ctgcgctggc	ggaaaa			336

<213> Homo sapiens

$$\langle 223 \rangle \quad n = A, T, C \text{ or } G$$

tgggtaccaa	atttntttat	ttgaaggaat	ggnacaaatc	aaanaactta	agnnggatggt	60
ttggtacaac	ttatanaaaa	ggnaaaggaa	accccaacat	gcatgcnctg	ccttgngnac	120
caggggaagtc	accccaacggc	tatggggaaa	ttancccgag	gcttancttt	cattatcact	180
gtctcccagg	gngngcttgt	caaaaanata	ttccnccaag	ccaaattcgg	gcgctcccat	240
nttgcnaag	ttgggtcacgt	ggtcacccaa	ttctttgatg	gctttcacct	gctcattcag	300
g						301

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 39, 143, 226

<223> n = A,T,C or G

<400> 288

```
aagtttttaa acttttttatt tgcataattaa aaaaattgng cattccaata attaaaatca 60
tttgaacaaa aaaaaaaatg gcactctgat taaactgcat tacagcctgc aggacacctt 120
gggccagctt ggttttactc tanatttcac tgctcgtccca cccacttct tccacccac 180
ttcttccttc accaacatgc aagttctttc cttccctgcc agccanata atagacagat 240
gggaaaggca ggcgcggcct tcgttggtcag tagttctttg atgtgaaagg ggcagcacag 300
tcatttaaac ttgatccaac ctctttgcat cttacaaagt taaacagcta aaagaagt 358
```

<210> 289

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 87, 141, 182, 220, 269, 327

<223> n = A,T,C or G

<400> 289

```
ggcatcagaa atgctgttta tttctctgct gctcccaagc tggctggcct ttgcagagga 60
gcagacaaca gatgcatagt tgggganaaa gggaggacag gttccaggat agagggtgca 120
ggctgaggga ggaagggtaa naggaaggaa ggccatcctg gatccccaca tttcagtctc 180
anatgaggac aaagggactc ccaagcccc aaatcatcan aaaacaccaa ggagcaggag 240
gagcttgagc aggccccagg gagcctcana gccataccag ccactgtcta cttcccatcc 300
tcctctccca ttccctgtct gcttcanacc acctcccagc taagccccag ctccattccc 360
ccaatcctgg cccttgccag cttgacagtc acagtgcctg gaattccacc actgaggctt 420
ctcccagttg gattaggacg tcgcctgtgt agcatgctgc cc 462
```

<210> 290

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 44, 57, 122, 158, 304, 325, 352, 405

<223> n = A,T,C or G

<400> 290

```
tactttccta aactttatta aagaaaaaag caataagcaa tggnggtaaa tctctanaac 60
atacccaatt ttctgggctt cttccccga gaatgtgaca ttttgatttc caaacatgcc 120
anaagtgtat ggttcccaac tgtactaaag taggtganaa gctgaagtcc tcaagtgttc 180
atcttccaac ttttcccagt ctgtgggtctg tctttggatc agcaataatt gcctgaacag 240
ctactatggc ttcgttgatt tttgtctgta gctctctgag ctctctatg tgcagcaatc 300
gcanaatttg agcagcttca ttaanaactg catctcctgt gtcaaaacca anaatatgtt 360
tgtctaaagc aacaggtaag ccctcttttg tttgatattgc cttancaact gcatcctgtg 420
tcaggcgctc ctgaacaaaa atccgaattg ccttaagcat taccaggtaa tcatcatgac 480
```

g

481

<210> 291
 <211> 381
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 79, 166, 187, 208, 219, 315
 <223> n = A,T,C or G

<400> 291
 tcatagtaat gtaaaacccat ttgtttaatt ctaaatacaa tcactttcac aacagtgaaa 60
 attagtgact ggttaaggng tgccactgta catatcatca ttttctgact ggggtcagga 120
 cctggtccta gtccacaagg gtggcaggag gaggggtggag gctaanaaca cagaaaacac 180
 acaaaaanaaa ggaaagctgc cttggcanaa ggatgaggng gtgagcttgc cgaaggatgg 240
 tgggaagggg gctccctgtt ggggccgagc caggagtccc aagtcagctc tcctgcctta 300
 cttagctcct ggcanagggt gagtggggac ctacgagggt caaaatacaa tggcatttgg 360
 ccagcctggc ttactaaca g 381

<210> 292
 <211> 371
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 32, 55, 72, 151, 189, 292
 <223> n = A,T,C or G

<400> 292
 gaaaaaataa tccgtttaat tgaaaaacct gnaggatact attccactcc cccanattgag 60
 gaggctgagg anaccaaacc cctacatcac ctctgtagcca ctcttgatac tcttcacgag 120
 gcagcaggca aagacaattc ccaaaacctc naaaaagca attccaaggg ctgctgcagc 180
 taccaccanc acatTTTTTcc tcagccagcc cccaatcttc tccacacagc cctccttatg 240
 gatcgcccttc tcgttgaaat taatcccaca gccacagta acattaatgc ancaggagtc 300
 ggggactcgg ttcttcgaca tggaagggat tttctcccaa tctgtgtagt tagcagcccc 360
 acagcactta a 371

<210> 293
 <211> 361
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 75, 196, 222
 <223> n = A,T,C or G

<400> 293
 gatttaaaag aaaacacttt attgttcagc aattaaaagt tagccaaata tgtatttttc 60
 tccataattt attgngatgt tatcaacatc aagtaaaatg ctcatTTTca tcatttgctt 120
 ctgttcatgt tttcttgaac acgtcttcaa ttttccttcc aaaatgctgc atgccacact 180

```

tgaggtaacg aagcanaagt atttttaaac atgacagcta anaacattca tctacagcaa 240
cctatatgct caatacatgc cgcgtgatcc tagtagtttt ttcacaacct tctacaagtt 300
tttggaanaac atctgttatg atgactttca tacaccttca cctcaaaggc tttcttgac 360
c

```

```

<210> 294
<211> 391
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 26, 77, 96, 150, 203, 252, 254, 264, 276
<223> n = A,T,C or G

```

```

<400> 294
tattttaag ttttaattatg attcanaaaa aatcgagcga ataactttct ctgaaaaaat 60
atattgactc tgtatanacc acagttattg gggganaagg gctggtaggt taaattatcc 120
tattttttat tctgaaaatg atattaatan aaagtcccgt ttccagtctg attataaaga 180
tacatatgcc caaaatggct ganaataaat acaacaggaa atgcaaaagc tgtaaagcta 240
agggcatgca ananaaaatc tcanaataacc caaagnggca acaaggaacg tttggctgga 300
atttgaagtt atttcagtca tctttgtctt tggtccatg tttcaggatg cgtgtgaact 360
cgatgtaatt gaaattcccc tttttatcaa t
391

```

```

<210> 295
<211> 343
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 145, 174, 205, 232
<223> n = A,T,C or G

```

```

<400> 295
ttcttttggt ttattgataa cagaaactgt gcataattac agatttgatg aggaatctgc 60
aaataataaa gaatgtgtct actgccagca aaatacaatt attccatgcc ctctcaacat 120
acaaatatag agttcttcac accanatggc tctggtgtaa caaagccatt ttanatgttt 180
aattgtgctt ctacaaaacc ttcanagcat gaggtagttt cttttaccta cnatattttc 240
cacatttcca ttattacact tttagtgagc taaaatcctt ttaacatagc ctgcggatga 300
tctttcacia aagccaagcc tcatttacaa agggtttatt tct
343

```

```

<210> 296
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 96, 98, 106, 185
<223> n = A,T,C or G

```

```

<400> 296
ttcttgata ttggttggtt ttgtgaaaaa gtttttggtt ttcttctcag tcaactgaat 60

```

```

tatttctcta ctttgccctc ctgatgccca catgananaa cttaanataa tttctaacag 120
cttccacttt ggaaaaaaaa aaaacctgtt ttcctcatgg aaccccagga gttgaaagtg 180
gatanatcgc tctcaaaatc taaggctctg ttcagcttta cattatgtta cctgacgttt 240
t                                                                 241

```

```

<210> 297
<211> 391
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 12, 130
<223> n = A,T,C or G

```

```

<400> 297
gttgtggctg anaatgctgg agatgctcag ttctctccct cacaaggtag gccacaaatt 60
cttggtgggtg ccctcacatc tgggggtcttc aggcaccagc catgcctgcc gaggagtgct 120
gtcaggacan accatgtccg tgctaggccc aggcacagcc caaccactcc tcatccaagt 180
ctctcccagg tttctgggtc cgatgggcaa ggatgacccc tccagtgggt ggtacccac 240
catcccacta ccctcacat gctctcactc tccatcaggt cccaatcct ggcttccctc 300
ttcacgaact ctcaaagaaa aggaaggata aaacctaaat aaaccagaca gaagcagctc 360
tggaagagta caaaaagaca gccagaggtg t                                                                 391

```

```

<210> 298
<211> 321
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 14, 30, 76, 116, 201, 288, 301
<223> n = A,T,C or G

```

```

<400> 298
caagccaaac tgtntccagc tttattaaan atactttcca taaacaatca tggatatttca 60
ggcaggacat gggcanacaa tcgttaacag tatacaacaa ctttcaaact cccttnttca 120
atggactacc aaaaatcaaa aagccactat aaaacccaat gaagtcttca tctgatgctc 180
tgaacaggga aagttttaaag ngagggttga catttcacat ttagcatgtt gtttaacaac 240
ttttcacaag ccgaccctga ctttcaggaa gtgaaatgaa aatggcanaa tttatctgaa 300
natccacaat ctaaaaatgg a                                                                 321

```

```

<210> 299
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 104, 268, 347
<223> n = A,T,C or G

```

```

<400> 299
tatcataaag agtggttgaag tttatttatt atagcaccat tgagacattt tgaaattgga 60

```

<210> 303

<211> 361
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 15, 27, 92, 124, 127, 183, 198, 244, 320
 <223> n = A,T,C or G

<400> 303
 tgcagacagt aaatnaattt tatttgngtt cacagaacat actaggcgat ctgcacagtc 60
 gctccgtgac agcccaccaa cccccaaccc tntacctgc agccacccta aaggcgactt 120
 caanaanatg gaaggatctc acggatctca ttcctaattg tccgccgaag tctcacacag 180
 tanacagacg gagttganat gctggaggat gcagtcacct cctaaactta cgaccaccca 240
 ccanaacttca tcccagccgg gacgtcctcc cccacccgag tcctcccat ttcttctcct 300
 actttgccgc agttccaggn gtctgtctc caccagtccc acaaagctca ataaatacca 360
 a 361

<210> 304
 <211> 301
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 23, 104, 192
 <223> n = A,T,C or G

<400> 304
 ctctttacaa cagcctttat ttncggccct tgatcctgct cggatgctgg tggaggccct 60
 tagctccgcc cgccaggctc tgtgccgct ccccgaggc gcanattcat gaacacggtg 120
 ctccaggggt tgaggccgta ctccccagc gggagctggt cctccagggg ctccccctcg 180
 aaggtcagcc anaacaggct gtctgcaca ccctccagcc cgctcacttg ctgcttcagg 240
 tgggccacgg tctgcgtcag ccgcacctcg taggtgctgc tgcggccctt gttattctc 300
 a 301

<210> 305
 <211> 331
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 36, 60, 193, 223
 <223> n = A,T,C or G

<400> 305
 ganaggctag taacatcagt tttattgggt tggggnggca accatagcct ggctgggggn 60
 ggggctggcc ctacaggtt gttgagttcc agcagggtct ggtccaaggc ctggtgaatc 120
 tcgacgttct cctccttggc actggccaag gtctcttcta ggtcatcgat ggttttctcc 180
 aactttgcc aanaacctct ggcaaaactct gctcgggtct cancctcctt cagcttctcc 240
 tccaacagtt tgatctcctc ttcataattta tcttctttgg gggaatactc ctctctgag 300
 gccatcaggg acttgagggc ctggtccatg g 331

<210> 306
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 306
 aatatgtaaa ggtaataact tttattatat taaagacaat gcaaacgaaa aacagaattg 60
 agcagtgcaa aattttaaagg actgttttgt tctcaaagtt gcaagtttca aagccaaaag 120
 aattatatgt atcaaataa taagtaaaaa aaagttagac tttcaagcct gtaatcccag 180
 cactttggga ggctgaggca ggtggatcac taacattaaa aagacaacat tagattttgt 240
 cgatttatag caattttata aatatataac tttgtcactt ggatcctgaa gcaaaataat 300
 aaagtgaatt tgggattttt gtacttggtta aaaagtttaa caccctaaat tcacaactag 360
 tggatccccc gggctgcagg aattcgatat caagcttata gataccgctg acctcgaggg 420
 ggggcccggg acccaattcg ccctatagtg agtcgta 457

<210> 307
 <211> 491
 <212> DNA
 <213> Homo sapiens

<400> 307
 gtgcttggac ggaacccggc gctcgttccc cccccggcc ggccgcccac agccagccct 60
 ccgtcacctc ttcaccgcac cctcggactg ccccaaggcc ccgcccgcg ctccagcgcc 120
 gcgcagccac cgccgcccgc gccgcctctc cttagtgcgc gccatgacga ccgcgtccac 180
 ctgcaggtg cgccagaact accaccagga ctgagaggcc gccatcaacc gccagatcaa 240
 cctggagctc tacgcctcct acgtttacct gtccatgtct tactactttg accgcgatga 300
 tgtggctttg aagaactttg ccaaataact tcttcaccaa tctcatgagg agaggggaaca 360
 tgctgagaaa ctgatgaagc tgcagaacca acgagggtggc cgaatcttcc ttcaggatat 420
 caagaaacca gactgtgatg actgggagag cgggctgaat gcaatggagt gtgcattaca 480
 tttggaaaaa a 491

<210> 308
 <211> 421
 <212> DNA
 <213> Homo sapiens

<400> 308
 ctgagcgctt cttcttttctt ggtttgatcc tgactgctgt catggcgtgc cctctggaga 60
 aggccttgga tgtgatgggtg tccaccttcc acaagtactc gggcaaagag ggtgacaagt 120
 tcaagctcaa caagtcagaa ctaaaggagc tgctgacctg ggagctgccc agcttcttgg 180
 ggaaaaggac agatgaagct gctttccaga agctgatgag caacttggac agcaacaggg 240
 acaacgaggt ggacttccaa gagtactgtg tcttcctgtc ctgcatcgcc atgatgtgta 300
 acgaattctt tgaaggcttc ccagataagc agcccaggaa gaaatgaaaa ctctctgat 360
 gtgggttgggg ggtctgccag ctggggccct ccctgtcgcc agtgggcact ttttttttct 420
 c 421

<210> 309
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 309
 accaaatggc ggatgacgcc ggtgcagcgg gggggcccgg gggccctggg gccctggga 60
 tggggaaccg cggtggcttc cgccgaggtt tcggcagtgg catccggggc cggggctcgc 120

gccgtggacg gggccggggc cgaggccgcg gagctcgcg aggcaaggcc gaggataagg 180
 agtggatgcc cgtcaccaag ttgggcccgt tggtaagga catgaagatc aagtccttg 240
 aggagatcta tctcttctcc ctgcccatta aggaatcaga gatcattgat ttcttccttg 300
 gggcctctct caaggatgag g 321

<210> 310
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 310
 ttaaccagcc atattggctc aataaatagc ttcggttaagg agttaatttc cttctagaaa 60
 tcagtgccta tttttccttg aaactcaatt ttaaatagtc caattccatc tgaagccaag 120
 ctgttgatcat tttcattcgg tgacattctc tcccatgaca cccagaaggg gcagaagaac 180
 cacatttttc atttatagat gtttgcatcc tttgtattaa aattattttg aaggggttgc 240
 ctcatgggat ggcttttttt tttttcctcc agggagaagg ggagaaatgt acttggaat 300
 taatgtatgt ttacatctct ttgcaaattc ctgtacatag agatatattt ttttaagtgtg 360
 aatgtaacaa catactgtga a 381

<210> 311
 <211> 538
 <212> DNA
 <213> Homo sapiens

<400> 311
 tttgaattta caccaagaac ttctcaataa aagaaaatca tgaatgctcc acaatttcaa 60
 cataccacaa gagaagttaa tttcttaaca ttgtgttcta tgattatttg taagaccttc 120
 accaagtctt gatattcttt aaagacatag ttcaaaattg cttttgaaaa tctgtattct 180
 tgaaaatatc cttgttggtg attaggtttt taaataccag cttaaaggatt acctcactga 240
 gtcacagta ccctcctatt cagctcccca agatgatgtg tttttgctta ccctaagaga 300
 ggttttcttc ttatttttag ataattcaag tgcttagata aattatgttt tctttaagtg 360
 tttatggtaa actcttttaa agaaaattta atatgttata gctgaatctt tttggtaact 420
 ttaaactctt atcatagact ctgtacatat gttcaaatta gctgcttgcc tgatgtgtgt 480
 atcatcgggt ggatgacaga acaaacatat ttatgatcat gaataatgtg ctttgtaa 538

<210> 312
 <211> 176
 <212> DNA
 <213> Homo sapiens

<400> 312
 ggaggagcag ctgagagata gggtcagtga atgcggttca gcctgctacc tctcctgtct 60
 tcatagaacc attgccttag aattattgta tgacacgttt tttgttggtt aagctgtaag 120
 gttttgttct ttgtgaacat gggatatttt aggggagggt ggaggagta gggaag 176

<210> 313
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 313
 ccagcacccc caggccctgg gggacctggg ttctcagact gccaaagaag ccttgccatc 60
 tggcgctccc atggctcttg caacatctcc ccttcgtttt tgaggggggtc atgccggggg 120
 agccaccagc ccctcactgg gttcggagga gagtcaggaa gggccaagca cgacaaagca 180

gaaacatcgg atttggggaa cgcgtgtcaa tcccttgtgc cgcagggctg ggcgggagag 240
 actgttctgt tccttgtgta actgtgttgc tgaaagacta cctcgttctt gtcttgatgt 300
 gtcaccgggg caactgcctg ggggcgggga tgggggcagg gtggaagcgg ctccccattt 360
 tataccaaag gtgctacatc tatgtgatgg gtgggg 396

<210> 314
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 314
 cctcaacatc ctcagagagg actggaagcc agtccttacg ataaactcca taatttatgg 60
 cctgcagtat ctcttcttgg agcccaaccc cgaggaccca ctgaacaagg aggcgcgaga 120
 ggtcctgcag aacaaccggc ggctgtttga gcagaacgtg cagcgtcca tgcgggggtg 180
 ctacatcggc tccacctact ttgagcgtg cctgaaatag ggttggcgca taccacccc 240
 cgccacggcc acaagccctg gcatccctg caaatattta ttgggggcca tgggtagggg 300
 tttggggggc g 311

<210> 315
 <211> 336
 <212> DNA
 <213> Homo sapiens

<400> 315
 tttagaacat ggttatcatc caagactact ctaccctgca acattgaact cccaagagca 60
 aatccacatt cctcttgagt tctgcagctt ctgtgtaaata agggcagctg tcgtctatgc 120
 cgtagaatca catgatctga ggaccattca tggagactgc taaatagcct agtctgggga 180
 gtcttccata aagttttgca tggagcaaac aaacaggatt aaactagggt tggttccttc 240
 agccctctaa aagcataggg cttagcctgc aggttcctt gggctttctc tgtgtgtgta 300
 gttttgtaaa cactatagca tctgttaaga tccagt 336

<210> 316
 <211> 436
 <212> DNA
 <213> Homo sapiens

<400> 316
 aacatgggtct gcgtgcctta agagagacgc ttcctgcaga acaggacctg actacaaaga 60
 atgtttccat tgggaattgtt ggtaaagact tggagtttac aatctatgat gatgatgatg 120
 tgtctccatt cctggaaggc cttgaagaaa gaccacagag aaaggcacag cctgctcaac 180
 ctgctgatga acctgcagaa aaggctgatg aaccaatgga acattaagtg ataagccagt 240
 ctatatatgt attatcaaata atgtaagaat acaggcacca catactgatg acaataatct 300
 atactttgaa ccaaaagttg cagagtgggtg gaatgctatg ttttaggaat cagtccagat 360
 gtgagttttt tccaagcaac ctcactgaaa cctatataat ggaatacatt tttctttgaa 420
 aggtctgtga taatca 436

<210> 317
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 317
 tattccttgt gaagatgata tactatTTTT gttaagcgtg tctgtattta tgtgtgagga 60
 gctgctggct tgcagtgcgc gtgcacgtgg agagctgggtg cccggagatt ggacggcctg 120

$$\begin{array}{ll} \langle 210 \rangle & 321 \\ \langle 211 \rangle & 421 \end{array}$$


```

aaccacaagcc tcagccccag cagctccacc cgtatccgca tccacatcca catccacact 300
ctcctcctca ctcgcaccca caccctcacc cgcacccgca tccgcaccaa ataccgcacc 360
cacacccaca gccgcactcg cagccgcacg ggcaccggct tctccgcagc acctccaact 420
ctgcctgaaa ggggcagctc ccgggcaaga caagggtttg aggacttgag gaagtgggac 480
gagcacattt ctattgtctt cacttgatc aaaagcaaaa c 521

```

```

<210> 325
<211> 451
<212> DNA
<213> Homo sapiens

```

```

<400> 325
attttcattt ccattaacct ggaagctttc atgaatatc tcttctttta aaacatttta 60
acattattta aacagaaaaa gatgggctct ttctgggttag ttgttacatg atagcagaga 120
tatttttact tagattactt tgggaatgag agattgttgt cttgaactct ggcactgtac 180
agtgaatgtg tctgtagttg tgtagtttg cattaagcat gtataacatt caagtatgtc 240
atccaaataa gaggcataa cattgaattg tttttaatcc tctgacaagt tgactcttcg 300
acccccaccc ccaccaaga cattttaata gtaaataagag agagagagaa gagttaatga 360
acatgaggta gtgttccact ggcaggatga cttttcaata gctcaaatca atttcagtgc 420
ctttatcact tgaattatta acttaatttg a 451

```

```

<210> 326
<211> 421
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 296
<223> n = A,T,C or G

```

```

<400> 326
cgcggtcgta agggctgagg atttttgggtc cgcacgctcc tgctcctgac tcaccgctgt 60
tcgctctcgc cgaggaacaa gtcggtcagg aagcccgcgc gcaacagcca tggcttttaa 120
ggataccgga aaaacacccg tggagccgga ggtggcaatt caccgaattc gaatcaccct 180
aacaagccgc aacgtaaaat ccttggaaaa ggtgtgtgct gacttgataa gaggcgcaaa 240
agaaaagaat ctcaaagtga aaggaccagt tcgaatgcct accaagactt tgagantcac 300
tacaagaaaa actccttggtg gtgaagggtt taagacgtgg gatcgtttcc agatgagaat 360
tcacaagcga ctcatgact tgcacagtcc ttctgagatt gttaagcaga ttacttccat 420
c 421

```

```

<210> 327
<211> 456
<212> DNA
<213> Homo sapiens

```

```

<400> 327
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ggcagccctt caggagctcc ttagtaaaagg acttatcaaa ctgggtttcaa agcacagagc 360
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```

456

<400> 328							
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gctggccaat	aaggtgccag	ctgctgcccc	tgetggtgcc	attgccccat	gtgaagtcc		420
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<220>  
<221> misc_feature  
<222> 154, 204  
<223> n = A,T,C or G
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```
<400> 329
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```

```
<210> 330
<211> 338
<212> DNA
<213> Homo sapiens
```

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<400> 330
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cctgtttctta tgaattcgaa cagcataccc ccgattccgc tacgaccaac tcatacacct 240
cctatgaaaa aacttcctac cactcacctt agcattactt atatgatatg tctccatacc 300
cattacaatc tccagcattc cccctcaaac ctaaaaaa 338
```

```
<210> 331
<211> 2820
<212> DNA
<213> Homo sapiens
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<400> 331
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<210> 332
 <211> 2270
 <212> DNA
 <213> Homo sapiens

<400> 332

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```

<210> 333
 <211> 2816
 <212> DNA
 <213> Homo sapiens

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<400> 333
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<210> 334
 <211> 2082
 <212> DNA
 <213> Homo sapiens

<400> 334
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<210> 335
<211> 4849
<212> DNA
<213> Homo sapiens
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<400> 335						
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<212> DNA
<213> Homo sapiens

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ctggggccgac gctgctttga ggcccggatc tgtgcttgcc caggaagaga caggaaggcg 780
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<210> 337
<211> 1551
<212> DNA
<213> Homo sapiens

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ccatcagaag atggtgcgac aaacaagatt gagattagca tggactgtat ccgcatgcag 180
gactcggacc tgagtgacct catgtggcca cagtacacga acctggggct cctgaacagc 240
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cagaacagcg tcacggcgcc ctgcgccctac gcacagccca gctccacctt cgatgctctc 360
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tccttccagc agtcgagcac cgccaagtcg gccacctgga cgtattccac tgaactgaag 480
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<210> 338
<211> 586
<212> PRT
<213> Homo sapiens
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Gly	Ser	Ser 35	Ser	Thr	Ser	Pro	Tyr 40	Asn	Thr	Asp	His	Ala 45	Gln	Asn	Ser
Val	Thr 50	Ala	Pro	Ser	Pro	Tyr 55	Ala	Gln	Pro	Ser	Pro	Thr 60	Phe	Asp	Ala
Leu 65	Ser	Pro	Ser	Pro	Ala 70	Ile	Pro	Ser	Asn	Thr 75	Asp	Tyr	Pro	Gly 80	Pro
His	Ser	Ser	Asp 85	Val	Ser	Phe	Gln	Gln	Ser 90	Ser	Thr	Ala	Lys 95	Ser	Ala
Thr	Trp	Thr	Tyr 100	Ser	Thr	Glu	Leu	Lys 105	Lys	Leu	Tyr	Cys	Gln 110	Ile	Ala
Lys	Thr	Cys 115	Pro	Ile	Gln	Ile	Lys 120	Val	Met	Thr	Pro	Pro 125	Pro	Gln	Gly
Ala	Val 130	Ile	Arg	Ala	Met 135	Pro	Val	Tyr	Lys	Lys	Ala 140	Glu	His	Val	Thr
Glu 145	Val	Val	Lys	Arg	Cys 150	Pro	Asn	His	Glu	Leu	Ser 155	Arg	Glu	Phe	Asn
Glu	Gly	Gln	Ile 165	Ala	Pro	Pro	Ser	His	Leu 170	Ile	Arg	Val	Glu 175	Gly	Asn
Ser	His	Ala	Gln 180	Tyr	Val	Glu	Asp 185	Pro	Ile	Thr	Gly	Arg	Gln 190	Ser	Val
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Leu	Tyr 210	Asn	Phe	Met	Cys	Asn 215	Ser	Ser	Cys	Val	Gly 220	Gly	Met	Asn	Arg
Arg 225	Pro	Ile	Leu	Ile	Ile 230	Val	Thr	Leu	Glu	Thr 235	Arg	Asp	Gly	Gln	Val
Leu	Gly	Arg	Arg	Cys	Phe	Glu	Ala	Arg	Ile	Cys	Ala	Cys	Pro	Gly	Arg

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Ser	Thr	Lys	Asn	Gly	Asp	Gly	Thr	Lys	Arg	Pro	Phe	Arg	Gln	Asn	Thr		
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Thr	Ile	Glu	Thr	Tyr	Arg	Gln	Gln	Gln	Gln	Gln	Gln	His	Gln	His	Leu		
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Tyr	Pro	Thr	Asp	Cys	Ser	Ile	Val	Ser	Phe	Leu	Ala	Arg	Leu	Gly	Cys		
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Ala	Ser	Thr	Val	Ser	Val	Gly	Ser	Ser	Glu	Thr	Arg	Gly	Glu	Arg	Val		
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 <212> PRT
 <213> Homo sapiens

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Lys	Ile	Glu	Ile	Ser	Met	Asp	Cys	Ile	Arg	Met	Gln	Asp	Ser	Asp	Leu		
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Ser	Asp	Pro	Met	Trp	Pro	Gln	Tyr	Thr	Asn	Leu	Gly	Leu	Leu	Asn	Ser		
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Met	Asp	Gln	Gln	Ile	Gln	Asn	Gly	Ser	Ser	Ser	Thr	Ser	Pro	Tyr	Asn		
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Thr	Asp	His	Ala	Gln	Asn	Ser	Val	Thr	Ala	Pro	Ser	Pro	Tyr	Ala	Gln		
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Asn	Thr	Asp	Tyr	Pro	Gly	Pro	His	Ser	Phe	Asp	Val	Ser	Phe	Gln	Gln		
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Ser	Ser	Thr	Ala	Lys	Ser	Ala	Thr	Trp	Thr	Tyr	Ser	Thr	Glu	Leu	Lys		
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Lys	Leu	Tyr	Cys	Gln	Ile	Ala	Lys	Thr	Cys	Pro	Ile	Gln	Ile	Lys	Val		
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Ile	Thr	Gly	Arg	Gln	Ser	Val	Leu	Val	Pro	Tyr	Glu	Pro	Pro	Gln	Val		
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Ile	Cys	Ala	Cys	Pro	Gly	Arg	Asp	Arg	Lys	Ala	Asp	Glu	Asp	Ser	Ile		
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Arg	Pro	Phe	Arg	Gln	Asn	Thr	His	Gly	Ile	Gln	Met	Thr	Ser	Ile	Lys		
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Arg	Glu	Thr	Tyr	Glu	Met	Leu	Leu	Lys	Ile	Lys	Glu	Ser	Leu	Glu	Leu		
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<212> PRT
<213> Homo sapiens
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Lys	Leu	Tyr	Cys	Gln	Ile	Ala	Lys	Thr	Cys	Pro	Ile	Gln	Ile	Lys	Val

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Arg	Glu	Thr	Tyr	Glu	Met	Leu	Leu	Lys	Ile	Lys	Glu	Ser	Leu	Glu	Leu		
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Phe	Arg	Asn	Glu	Leu	Val	Glu	Pro	Arg	Arg	Glu	Thr	Pro	Lys	Gln	Ser		
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<210> 341
 <211> 356
 <212> PRT
 <213> Homo sapiens

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 Val Thr Ala Pro Ser Pro Tyr Ala Gln Pro Ser Ser Thr Phe Asp Ala
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 Leu Ser Pro Ser Pro Ala Ile Pro Ser Asn Thr Asp Tyr Pro Gly Pro
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 His Ser Phe Asp Val Ser Phe Gln Gln Ser Ser Thr Ala Lys Ser Ala

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Lys	Thr	Cys	Pro	Ile	Gln	Ile	Lys	Val	Met	Thr	Pro	Pro	Pro	Gln	Gly	
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Ser	His	Ala	Gln	Tyr	Val	Glu	Asp	Pro	Ile	Thr	Gly	Arg	Gln	Ser	Val	
			180					185					190			
Leu	Val	Pro	Tyr	Glu	Pro	Pro	Gln	Val	Gly	Thr	Glu	Phe	Thr	Thr	Val	
		195					200					205				
Leu	Tyr	Asn	Phe	Met	Cys	Asn	Ser	Ser	Cys	Val	Gly	Gly	Met	Asn	Arg	
		210				215					220					
Arg	Pro	Ile	Leu	Ile	Ile	Val	Thr	Leu	Glu	Thr	Arg	Asp	Gly	Gln	Val	
225					230					235					240	
Leu	Gly	Arg	Arg	Cys	Phe	Glu	Ala	Arg	Ile	Cys	Ala	Cys	Pro	Gly	Arg	
			245					250						255		
Asp	Arg	Lys	Ala	Asp	Glu	Asp	Ser	Ile	Arg	Lys	Gln	Gln	Val	Ser	Asp	
			260					265					270			
Ser	Thr	Lys	Asn	Gly	Asp	Gly	Thr	Lys	Arg	Pro	Ser	Arg	Gln	Asn	Thr	
		275					280					285				
His	Gly	Ile	Gln	Met	Thr	Ser	Ile	Lys	Lys	Arg	Arg	Ser	Pro	Asp	Asp	
		290				295					300					
Glu	Leu	Leu	Tyr	Leu	Pro	Val	Arg	Gly	Arg	Glu	Thr	Tyr	Glu	Met	Leu	
305					310					315					320	
Leu	Lys	Ile	Lys	Glu	Ser	Leu	Glu	Leu	Met	Gln	Tyr	Leu	Pro	Gln	His	
			325					330						335		
Thr	Ile	Glu	Thr	Tyr	Arg	Gln	Gln	Gln	Gln	Gln	Gln	His	Gln	His	Leu	
			340				345						350			
Leu	Gln	Lys	Gln													
		355														

<210> 342

<211> 680

<212> PRT

<213> Homo sapiens

<400> 342

Met	Asn	Phe	Glu	Thr	Ser	Arg	Cys	Ala	Thr	Leu	Gln	Tyr	Cys	Pro	Asp	
1				5				10						15		
Pro	Tyr	Ile	Gln	Arg	Phe	Val	Glu	Thr	Pro	Ala	His	Phe	Ser	Trp	Lys	
			20					25					30			
Glu	Ser	Tyr	Tyr	Arg	Ser	Thr	Met	Ser	Gln	Ser	Thr	Gln	Thr	Asn	Glu	
		35				40					45					
Phe	Leu	Ser	Pro	Glu	Val	Phe	Gln	His	Ile	Trp	Asp	Phe	Leu	Glu	Gln	
	50					55				60						
Pro	Ile	Cys	Ser	Val	Gln	Pro	Ile	Asp	Leu	Asn	Phe	Val	Asp	Glu	Pro	
65					70				75					80		
Ser	Glu	Asp	Gly	Ala	Thr	Asn	Lys	Ile	Glu	Ile	Ser	Met	Asp	Cys	Ile	

				85				90					95				
Arg	Met	Gln	Asp	Ser	Asp	Leu	Ser	Asp	Pro	Met	Trp	Pro	Gln	Tyr	Thr		
			100					105					110				
Asn	Leu	Gly	Leu	Leu	Asn	Ser	Met	Asp	Gln	Gln	Ile	Gln	Asn	Gly	Ser		
		115					120					125					
Ser	Ser	Thr	Ser	Pro	Tyr	Asn	Thr	Asp	His	Ala	Gln	Asn	Ser	Val	Thr		
	130					135					140						
Ala	Pro	Ser	Pro	Tyr	Ala	Gln	Pro	Ser	Ser	Thr	Phe	Asp	Ala	Leu	Ser		
145					150					155					160		
Pro	Ser	Pro	Ala	Ile	Pro	Ser	Asn	Thr	Asp	Tyr	Pro	Gly	Pro	His	Ser		
				165					170					175			
Phe	Asp	Val	Ser	Phe	Gln	Gln	Ser	Ser	Thr	Ala	Lys	Ser	Ala	Thr	Trp		
		180						185					190				
Thr	Tyr	Ser	Thr	Glu	Leu	Lys	Lys	Leu	Tyr	Cys	Gln	Ile	Ala	Lys	Thr		
	195					200					205						
Cys	Pro	Ile	Gln	Ile	Lys	Val	Met	Thr	Pro	Pro	Pro	Gln	Gly	Ala	Val		
	210				215						220						
Ile	Arg	Ala	Met	Pro	Val	Tyr	Lys	Lys	Ala	Glu	His	Val	Thr	Glu	Val		
225					230				235						240		
Val	Lys	Arg	Cys	Pro	Asn	His	Glu	Leu	Ser	Arg	Glu	Phe	Asn	Glu	Gly		
				245					250					255			
Gln	Ile	Ala	Pro	Pro	Ser	His	Leu	Ile	Arg	Val	Glu	Gly	Asn	Ser	His		
		260						265					270				
Ala	Gln	Tyr	Val	Glu	Asp	Pro	Ile	Thr	Gly	Arg	Gln	Ser	Val	Leu	Val		
	275					280						285					
Pro	Tyr	Glu	Pro	Pro	Gln	Val	Gly	Thr	Glu	Phe	Thr	Thr	Val	Leu	Tyr		
	290				295						300						
Asn	Phe	Met	Cys	Asn	Ser	Ser	Cys	Val	Gly	Gly	Met	Asn	Arg	Arg	Pro		
305				310					315						320		
Ile	Leu	Ile	Ile	Val	Thr	Leu	Glu	Thr	Arg	Asp	Gly	Gln	Val	Leu	Gly		
				325					330					335			
Arg	Arg	Cys	Phe	Glu	Ala	Arg	Ile	Cys	Ala	Cys	Pro	Gly	Arg	Asp	Arg		
		340						345					350				
Lys	Ala	Asp	Glu	Asp	Ser	Ile	Arg	Lys	Gln	Gln	Val	Ser	Asp	Ser	Thr		
	355					360						365					
Lys	Asn	Gly	Asp	Gly	Thr	Lys	Arg	Pro	Phe	Arg	Gln	Asn	Thr	His	Gly		
	370					375					380						
Ile	Gln	Met	Thr	Ser	Ile	Lys	Lys	Arg	Arg	Ser	Pro	Asp	Asp	Glu	Leu		
385					390					395					400		
Leu	Tyr	Leu	Pro	Val	Arg	Gly	Arg	Glu	Thr	Tyr	Glu	Met	Leu	Leu	Lys		
				405					410					415			
Ile	Lys	Glu	Ser	Leu	Glu	Leu	Met	Gln	Tyr	Leu	Pro	Gln	His	Thr	Ile		
		420						425					430				
Glu	Thr	Tyr	Arg	Gln	Gln	Gln	Gln	Gln	Gln	His	Gln	His	Leu	Leu	Gln		
	435					440						445					
Lys	Gln	Thr	Ser	Ile	Gln	Ser	Pro	Ser	Ser	Tyr	Gly	Asn	Ser	Ser	Pro		
	450				455						460						
Pro	Leu	Asn	Lys	Met	Asn	Ser	Met	Asn	Lys	Leu	Pro	Ser	Val	Ser	Gln		
465				470					475						480		
Leu	Ile	Asn	Pro	Gln	Gln	Arg	Asn	Ala	Leu	Thr	Pro	Thr	Thr	Ile	Pro		
				485					490					495			
Asp	Gly	Met	Gly	Ala	Asn	Ile	Pro	Met	Met	Gly	Thr	His	Met	Pro	Met		
	500							505					510				
Ala	Gly	Asp	Met	Asn	Gly	Leu	Ser	Pro	Thr	Gln	Ala	Leu	Pro	Pro	Pro		

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<210> 343
<211> 461
<212> PRT
<213> Homo sapiens
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<400> 343															
Met	Leu	Tyr	Leu	Glu	Asn	Asn	Ala	Gln	Thr	Gln	Phe	Ser	Glu	Pro	Gln
1				5					10					15	
Tyr	Thr	Asn	Leu	Gly	Leu	Leu	Asn	Ser	Met	Asp	Gln	Gln	Ile	Gln	Asn
			20					25					30		
Gly	Ser	Ser	Ser	Thr	Ser	Pro	Tyr	Asn	Thr	Asp	His	Ala	Gln	Asn	Ser
		35					40					45			
Val	Thr	Ala	Pro	Ser	Pro	Tyr	Ala	Gln	Pro	Ser	Ser	Thr	Phe	Asp	Ala
	50					55					60				
Leu	Ser	Pro	Ser	Pro	Ala	Ile	Pro	Ser	Asn	Thr	Asp	Tyr	Pro	Gly	Pro
65					70					75					80
His	Ser	Phe	Asp	Val	Ser	Phe	Gln	Gln	Ser	Ser	Thr	Ala	Lys	Ser	Ala
				85					90					95	
Thr	Trp	Thr	Tyr	Ser	Thr	Glu	Leu	Lys	Lys	Leu	Tyr	Cys	Gln	Ile	Ala
			100					105					110		
Lys	Thr	Cys	Pro	Ile	Gln	Ile	Lys	Val	Met	Thr	Pro	Pro	Pro	Gln	Gly
		115					120					125			
Ala	Val	Ile	Arg	Ala	Met	Pro	Val	Tyr	Lys	Lys	Ala	Glu	His	Val	Thr
	130					135					140				
Glu	Val	Val	Lys	Arg	Cys	Pro	Asn	His	Glu	Leu	Ser	Arg	Glu	Phe	Asn
145					150					155					160
Glu	Gly	Gln	Ile	Ala	Pro	Pro	Ser	His	Leu	Ile	Arg	Val	Glu	Gly	Asn
				165					170					175	
Ser	His	Ala	Gln	Tyr	Val	Glu	Asp	Pro	Ile	Thr	Gly	Arg	Gln	Ser	Val
			180					185					190		
Leu	Val	Pro	Tyr	Glu	Pro	Pro	Gln	Val	Gly	Thr	Glu	Phe	Thr	Thr	Val

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      195              200              205
Leu Tyr Asn Phe Met Cys Asn Ser Ser Cys Val Gly Gly Met Asn Arg
  210              215              220
Arg Pro Ile Leu Ile Ile Val Thr Leu Glu Thr Arg Asp Gly Gln Val
225              230              235              240
Leu Gly Arg Arg Cys Phe Glu Ala Arg Ile Cys Ala Cys Pro Gly Arg
      245              250              255
Asp Arg Lys Ala Asp Glu Asp Ser Ile Arg Lys Gln Gln Val Ser Asp
      260              265              270
Ser Thr Lys Asn Gly Asp Gly Thr Lys Arg Pro Phe Arg Gln Asn Thr
      275              280              285
His Gly Ile Gln Met Thr Ser Ile Lys Lys Arg Arg Ser Pro Asp Asp
      290              295              300
Glu Leu Leu Tyr Leu Pro Val Arg Gly Arg Glu Thr Tyr Glu Met Leu
305              310              315              320
Leu Lys Ile Lys Glu Ser Leu Glu Leu Met Gln Tyr Leu Pro Gln His
      325              330              335
Thr Ile Glu Thr Tyr Arg Gln Gln Gln Gln Gln Gln His Gln His Leu
      340              345              350
Leu Gln Lys Gln Thr Ser Ile Gln Ser Pro Ser Ser Tyr Gly Asn Ser
      355              360              365
Ser Pro Pro Leu Asn Lys Met Asn Ser Met Asn Lys Leu Pro Ser Val
      370              375              380
Ser Gln Leu Ile Asn Pro Gln Gln Arg Asn Ala Leu Thr Pro Thr Thr
385              390              395              400
Ile Pro Asp Gly Met Gly Ala Asn Ile Pro Met Met Gly Thr His Met
      405              410              415
Pro Met Ala Gly Asp Met Asn Gly Leu Ser Pro Thr Gln Ala Leu Pro
      420              425              430
Pro Pro Leu Ser Met Pro Ser Thr Ser His Cys Thr Pro Pro Pro Pro
      435              440              445
Tyr Pro Thr Asp Cys Ser Ile Val Arg Ile Trp Gln Val
      450              455              460

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<210> 344
 <211> 516
 <212> PRT
 <213> Homo sapiens

<400> 344
 Met Ser Gln Ser Thr Gln Thr Asn Glu Phe Leu Ser Pro Glu Val Phe
 1 5 10 15
 Gln His Ile Trp Asp Phe Leu Glu Gln Pro Ile Cys Ser Val Gln Pro
 20 25 30
 Ile Asp Leu Asn Phe Val Asp Glu Pro Ser Glu Asp Gly Ala Thr Asn
 35 40 45
 Lys Ile Glu Ile Ser Met Asp Cys Ile Arg Met Gln Asp Ser Asp Leu
 50 55 60
 Ser Asp Pro Met Trp Pro Gln Tyr Thr Asn Leu Gly Leu Leu Asn Ser
 65 70 75 80
 Met Asp Gln Gln Ile Gln Asn Gly Ser Ser Ser Thr Ser Pro Tyr Asn
 85 90 95
 Thr Asp His Ala Gln Asn Ser Val Thr Ala Pro Ser Pro Tyr Ala Gln

			100					105					110			
Pro	Ser	Ser	Thr	Phe	Asp	Ala	Leu	Ser	Pro	Ser	Pro	Ala	Ile	Pro	Ser	
		115					120					125				
Asn	Thr	Asp	Tyr	Pro	Gly	Pro	His	Ser	Phe	Asp	Val	Ser	Phe	Gln	Gln	
	130					135					140					
Ser	Ser	Thr	Ala	Lys	Ser	Ala	Thr	Trp	Thr	Tyr	Ser	Thr	Glu	Leu	Lys	
145					150					155					160	
Lys	Leu	Tyr	Cys	Gln	Ile	Ala	Lys	Thr	Cys	Pro	Ile	Gln	Ile	Lys	Val	
			165						170					175		
Met	Thr	Pro	Pro	Pro	Gln	Gly	Ala	Val	Ile	Arg	Ala	Met	Pro	Val	Tyr	
			180										190			
Lys	Lys	Ala	Glu	His	Val	Thr	Glu	Val	Val	Lys	Arg	Cys	Pro	Asn	His	
		195					200					205				
Glu	Leu	Ser	Arg	Glu	Phe	Asn	Glu	Gly	Gln	Ile	Ala	Pro	Pro	Ser	His	
	210					215					220					
Leu	Ile	Arg	Val	Glu	Gly	Asn	Ser	His	Ala	Gln	Tyr	Val	Glu	Asp	Pro	
225					230					235					240	
Ile	Thr	Gly	Arg	Gln	Ser	Val	Leu	Val	Pro	Tyr	Glu	Pro	Pro	Gln	Val	
				245					250					255		
Gly	Thr	Glu	Phe	Thr	Thr	Val	Leu	Tyr	Asn	Phe	Met	Cys	Asn	Ser	Ser	
			260					265					270			
Cys	Val	Gly	Gly	Met	Asn	Arg	Arg	Pro	Ile	Leu	Ile	Ile	Val	Thr	Leu	
		275					280					285				
Glu	Thr	Arg	Asp	Gly	Gln	Val	Leu	Gly	Arg	Arg	Cys	Phe	Glu	Ala	Arg	
	290					295					300					
Ile	Cys	Ala	Cys	Pro	Gly	Arg	Asp	Arg	Lys	Ala	Asp	Glu	Asp	Ser	Ile	
305					310					315					320	
Arg	Lys	Gln	Gln	Val	Ser	Asp	Ser	Thr	Lys	Asn	Gly	Asp	Gly	Thr	Lys	
				325					330					335		
Arg	Pro	Phe	Arg	Gln	Asn	Thr	His	Gly	Ile	Gln	Met	Thr	Ser	Ile	Lys	
			340					345					350			
Lys	Arg	Arg	Ser	Pro	Asp	Asp	Glu	Leu	Leu	Tyr	Leu	Pro	Val	Arg	Gly	
		355					360					365				
Arg	Glu	Thr	Tyr	Glu	Met	Leu	Leu	Lys	Ile	Lys	Glu	Ser	Leu	Glu	Leu	
	370					375					380					
Met	Gln	Tyr	Leu	Pro	Gln	His	Thr	Ile	Glu	Thr	Tyr	Arg	Gln	Gln	Gln	
385					390					395					400	
Gln	Gln	Gln	His	Gln	His	Leu	Leu	Gln	Lys	Gln	Thr	Ser	Ile	Gln	Ser	
				405					410					415		
Pro	Ser	Ser	Tyr	Gly	Asn	Ser	Ser	Pro	Pro	Leu	Asn	Lys	Met	Asn	Ser	
			420					425					430			
Met	Asn	Lys	Leu	Pro	Ser	Val	Ser	Gln	Leu	Ile	Asn	Pro	Gln	Gln	Arg	
		435					440					445				

<210> 345
 <211> 1800
 <212> DNA
 <213> Homo sapiens

<400> 345
 gcgcctcatt gccactgcag tgactaaagc tgggaagacg ctgggtcagtt cacctgcccc 60
 actgggttggt ttttaaacia attctgatac aggcgacatc ctcactgacc gagcaaagat 120
 tgacattcgt atcatcactg tgcaccattg gcttctaggc actccagtgg ggtaggagaa 180
 ggaggtctga aaccctcgca gagggatctt gccctcattc tttgggtctg aaacactggc 240
 agtcgttgga aacaggactc agggataaac cagcgcgaatg gattggggga cgctgcacac 300
 tttcatcggg ggtgtcaaca aacactccac cagcatcggg aagggtgtga tcacagtcac 360
 ctttattttc cgagtcacga tcctagtggg ggctgcccag gaagtgtggg gtgacgagca 420
 agaggacttc gtctgcaaca cactgcaacc gggatgcaaa aatgtgtgct atgaccactt 480
 tttcccggtg tcccacatcc ggctgtgggc cctccagctg atcttcgtct ccaccccagc 540
 gctgctggtg gccatgcatg tggcctacta caggcacgaa accactcgca agttcaggcg 600
 aggagagaag aggaatgatt tcaaagacat agaggacatt aaaaagcaca aggttcggat 660
 agaggggtcg ctgtggtgga cgtacaccag cagcatcttt tcccgaatca tctttgaagc 720
 agcctttatg tatgtgtttt acttccttta caatgggtac cacctgccct ggggtgttgaa 780
 atgtgggatt gaccctgcc ccaaccttgt tgactgcttt atttctaggc caacagagaa 840
 gaccgtgttt accattttta tgatttctgc gtctgtgatt tgcattgctg ttaacgtggc 900
 agagttgtgc tacctgctgc tgaaagtgtg ttttaggaga tcaaagagag cacagacgca 960
 aaaaaatcac cccaatcatg ccctaaagga gagtaagcag aatgaaatga atgagctgat 1020
 ttcagatagt ggtcaaaaatg caatcacagg tttcccaagc taaacatttc aaggtaaaat 1080
 gtagctgcgt cataaggaga cttctgtctt ctccagaagg caataccaac ctgaaagtgc 1140
 cttctgtagc ctgaagagtt tgtaaattgac tttcataata aatagacact tgagttaact 1200
 tttttagtaga tacttgctcc attcatacac aacgtaata aatatgtggg ccatctctga 1260
 aaacaagaga ctgcttgaca aaggagcatt gcagtcactt tgacagggtc cttttaagtg 1320
 gactctctga caaagtgggt actttctgaa aatttatata actgttggtg ataaggaaca 1380
 tttatccagg aattgatacg tttatttaga aaagatatat ttataggctt ggatgttttt 1440
 agttccgact ttgaatttat ataaagtatt tttataatga ctgggtcttc ttacctggaa 1500
 aaacatgcga tgttagtttt agaattacac cacaagtatc taaatttcca acttacaag 1560
 ggtcctatct tgtaaattatt gttttgcatt gtctgttggc aaatttgtga actgtcatga 1620
 tacgcttaag gtgggaaagt gttcattgca caatatatit ttactgcttt ctgaatgtag 1680
 acggaacagt gtggaagcag aaggcttttt taactcatcc gtttggccga tcgttgcaga 1740
 ccactgggag atgtggatgt gggtgcctcc ttttgctcgt ccccggtggc taacccttct 1800

<210> 346
 <211> 261
 <212> PRT
 <213> Homo sapiens

<400> 346
 Met Asp Trp Gly Thr Leu His Thr Phe Ile Gly Gly Val Asn Lys His
 1 5 10 15
 Ser Thr Ser Ile Gly Lys Val Trp Ile Thr Val Ile Phe Ile Phe Arg
 20 25 30
 Val Met Ile Leu Val Val Ala Ala Gln Glu Val Trp Gly Asp Glu Gln
 35 40 45
 Glu Asp Phe Val Cys Asn Thr Leu Gln Pro Gly Cys Lys Asn Val Cys
 50 55 60
 Tyr Asp His Phe Phe Pro Val Ser His Ile Arg Leu Trp Ala Leu Gln

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<210> 347
<211> 1740
<212> DNA
<213> Homo sapiens
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<400> 347						
atgaacaaac	tgtatatcgg	aaacctcagc	gagaacgccg	ccccctcggg	cctagaaagt	60
atcttcaagg	acgccaaagt	cccgggtgtc	ggacccttcc	tgggtgaagac	tggctacgcg	120
ttcgtggact	gcccggacga	gagctgggcc	ctcaaggcca	tcgaggcgct	ttcaggtaaa	180
atagaactgc	acgggaaacc	catagaagtt	gagcactcgg	tcccaaaaag	gcaaaggatt	240
cggaaaacttc	agatacgaaa	tatcccgcct	catttacagt	gggaggtgct	ggatagttta	300
ctagtcacgt	atggagtggt	ggagagctgt	gagcaagtga	acactgactc	ggaaactgca	360
gttgtaaattg	taacctattc	cagtaaggac	caagctagac	aagcactaga	caaactgaat	420
ggatttcagt	tagagaattt	caccttgaaa	gtagcctata	tccctgatga	aacggccgcc	480
cagcaaaaacc	ccttgccagca	gccccgaggt	cgccgggggc	ttgggcagag	gggctcctca	540
aggcaggggt	ctccaggatc	cgtatccaag	cagaaaccat	gtgatttgcc	tctgcgcctg	600
ctggttccca	cccaatttgt	tggagccatc	ataggaaaag	aagggtgccac	cattcggaac	660
atcaccaaac	agaccacgtc	taaaatcgat	gtccaccgta	aagaaaatgc	gggggctgct	720
gagaagtcga	ttactatcct	ctctactcct	gaaggcacct	ctgcggcttg	taagtctatt	780
ctggagatta	tgcataagga	agctcaagat	ataaaattca	cagaagagat	ccccttgaag	840
atttttagctc	ataataactt	tgttggacgt	cttattggta	aagaaggaag	aaatcttaaa	900
aaaattgagc	aagacacaga	cactaaaatc	acgatatctc	cattgcagga	attgacgctg	960
tataatccag	aacgcactat	tacagttaaa	ggcaatgttg	agacatgtgc	caaagctgag	1020
gaggagatca	tgaagaaaat	cagggagctc	tatgaaaatg	atattgcttc	tatgaatctt	1080
caagcacatt	taattcctgg	attaaatctg	aacgccttgg	gtctgttccc	accacttca	1140
gggatgccac	ctcccacctc	agggccccct	tcagccatga	ctcctcccta	cccgagttt	1200
gagcaatcag	aaacggagac	tgttcatctg	tttatccag	ctctatcagt	cggtgccatc	1260

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<210> 348
<211> 579
<212> PRT
<213> Homo sapiens
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Met 1	Asn	Lys	Leu	Tyr 5	Ile	Gly	Asn	Leu	Ser 10	Glu	Asn	Ala	Ala	Pro 15	Ser
Asp	Leu	Glu	Ser 20	Ile	Phe	Lys	Asp	Ala 25	Lys	Ile	Pro	Val	Ser 30	Gly	Pro
Phe	Leu	Val 35	Lys	Thr	Gly	Tyr	Ala 40	Phe	Val	Asp	Cys	Pro 45	Asp	Glu	Ser
Trp	Ala 50	Leu	Lys	Ala	Ile	Glu 55	Ala	Leu	Ser	Gly	Lys 60	Ile	Glu	Leu	His
Gly 65	Lys	Pro	Ile	Glu 70	Val	Glu	His	Ser	Val	Pro 75	Lys	Arg	Gln	Arg 80	Ile
Arg	Lys	Leu	Gln 85	Ile	Arg	Asn	Ile	Pro	Pro 90	His	Leu	Gln	Trp 95	Glu	Val
Leu	Asp	Ser 100	Leu	Leu	Val	Gln	Tyr	Gly 105	Val	Val	Glu	Ser 110	Cys	Glu	Gln
Val	Asn 115	Thr	Asp	Ser	Glu	Thr	Ala 120	Val	Val	Asn	Val 125	Thr	Tyr	Ser	Ser
Lys 130	Asp	Gln	Ala	Arg	Gln	Ala 135	Leu	Asp	Lys	Leu	Asn 140	Gly	Phe	Gln	Leu
Glu 145	Asn	Phe	Thr	Leu 150	Lys	Val	Ala	Tyr	Ile	Pro 155	Asp	Glu	Thr	Ala 160	Ala
Gln	Gln	Asn	Pro	Leu 165	Gln	Gln	Pro	Arg	Gly 170	Arg	Arg	Gly	Leu	Gly 175	Gln
Arg	Gly	Ser 180	Ser	Arg	Gln	Gly	Ser	Pro 185	Gly	Ser	Val	Ser 190	Lys	Gln	Lys
Pro	Cys 195	Asp	Leu	Pro	Leu	Arg	Leu 200	Leu	Val	Pro	Thr 205	Gln	Phe	Val	Gly
Ala 210	Ile	Ile	Gly	Lys	Glu	Gly 215	Ala	Thr	Ile	Arg 220	Asn	Ile	Thr	Lys	Gln
Thr 225	Gln	Ser	Lys	Ile	Asp 230	Val	His	Arg	Lys	Glu 235	Asn	Ala	Gly	Ala 240	Ala
Glu	Lys	Ser	Ile 245	Thr	Ile	Leu	Ser	Thr	Pro 250	Glu	Gly	Thr	Ser	Ala 255	Ala
Cys	Lys	Ser 260	Ile	Leu	Glu	Ile	Met	His 265	Lys	Glu	Ala	Gln 270	Asp	Ile	Lys
Phe	Thr 275	Glu	Glu	Ile	Pro	Leu	Lys 280	Ile	Leu	Ala	His 285	Asn	Asn	Phe	Val
Gly	Arg 290	Leu	Ile	Gly	Lys	Glu 295	Gly	Arg	Asn	Leu	Lys 300	Lys	Ile	Glu	Gln

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<210> 349
<211> 207
<212> DNA
<213> Homo sapiens
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<210> 350
<211> 69
<212> PRT
<213> Homo sapiens
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<400> 350

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Met Trp Gln Pro Leu Phe Phe Lys Trp Leu Leu Ser Cys Cys Pro Gly
 1          5          10          15
Ser Ser Gln Ile Ala Ala Ala Ala Ser Thr Gln Pro Glu Asp Asp Ile
          20          25          30
Asn Thr Gln Arg Lys Lys Ser Gln Glu Lys Met Arg Glu Val Thr Asp
          35          40          45
Ser Pro Gly Arg Pro Arg Glu Leu Thr Ile Pro Gln Thr Ser Ser His
          50          55          60
Gly Ala Asn Arg Phe
65

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<210> 351

<211> 1012

<212> DNA

<213> Homo sapiens

<400> 351

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ccgatcgggc aggcgatggc gatcgcgggc cagatcaagc ttcccaccgt tcatatcggg 180
cctaccgctt tctcggctt ggggtgtgtc gacaacaacg gcaacggcgc acgagtccaa 240
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gcggtcgacg gcgctccgat caactcggcc accgcgatgg cggacgcgct taacgggcat 360
catcccgggtg acgtcatctc ggtgacctgg caaaccaagt cgggcggcac gcgtacaggg 420
aacgtgacat tggccgaggg acccccggcc gaattcatgg attgggggac gctgcacact 480
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gaggacttcg tctgcaacac actgcaaccg ggatgcaaaa atgtgtgcta tgaccacttt 660
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aaggaagctg agttggctgc tgccaccgct gagcaataac tagcataacc ccttggggcc 960
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<210> 352

<211> 267

<212> PRT

<213> Homo sapiens

<400> 352

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Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
          20          25          30
Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
          35          40          45
Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
          50          55          60
Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
65          70          75          80
Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr

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				85				90					95				
Ala	Met	Ala	Asp	Ala	Leu	Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser		
			100					105					110				
Val	Thr	Trp	Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr		
		115					120					125					
Leu	Ala	Glu	Gly	Pro	Pro	Ala	Glu	Phe	Met	Asp	Trp	Gly	Thr	Leu	His		
	130					135					140						
Thr	Phe	Ile	Gly	Gly	Val	Asn	Lys	His	Ser	Thr	Ser	Ile	Gly	Lys	Val		
145					150					155					160		
Trp	Ile	Thr	Val	Ile	Phe	Ile	Phe	Arg	Val	Met	Ile	Leu	Val	Val	Ala		
				165					170					175			
Ala	Gln	Glu	Val	Trp	Gly	Asp	Glu	Gln	Glu	Asp	Phe	Val	Cys	Asn	Thr		
			180					185					190				
Leu	Gln	Pro	Gly	Cys	Lys	Asn	Val	Cys	Tyr	Asp	His	Phe	Phe	Pro	Val		
	195					200					205						
Ser	His	Ile	Arg	Leu	Trp	Ala	Leu	Gln	Leu	Ile	Phe	Val	Ser	Thr	Pro		
	210					215					220						
Ala	Leu	Leu	Val	Ala	Met	His	Val	Ala	Tyr	Tyr	Arg	His	Glu	Thr	Thr		
225					230					235					240		
Arg	Lys	Phe	Arg	Arg	Gly	Glu	Lys	Arg	Asn	Asp	Phe	Lys	Asp	Ile	Glu		
				245					250					255			
Asp	Ile	Lys	Lys	Gln	Lys	Val	Arg	Ile	Glu	Gly							
			260					265									

<210> 353
 <211> 900
 <212> DNA
 <213> Homo sapiens

<400> 353
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 accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
 ggcgcacgag tccaacgcgt ggctcgggagc gctccggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcattcatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360
 ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt ccacgaaacc 420
 actcgcaagt tcaggcgagg agagaagagg aatgatttca aagacataga ggacattaaa 480
 aagcagaagg ttcgatagat ggggtcgctg tgggtggacgt acaccagcag catctttttc 540
 cgaatcatct ttgaagcagc ctttatgtat gtgtttttact tcctttacaa tgggtaccac 600
 ctgccctggg tgttgaaatg tgggattgac ccctgcccc aacctgttga ctgctttatt 660
 tctaggccaa cagagaagac cgtgtttacc atttttatga tttctgcgtc tgtgatttgc 720
 atgctgctta acgtggcaga gttgtgctac ctgctgctga aagtgtgttt taggagatca 780
 aagagagcac agacgcaaaa aaatcacccc aatcatgccc taaaggagag taagcagaat 840
 gaaatgaatg agctgatttc agatagtggc caaatgcaa tcacagggtt cccaagctaa 900

<210> 354
 <211> 299
 <212> PRT
 <213> Homo sapiens

<400> 354

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 Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
 20 25 30
 Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
 35 40 45
 Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
 50 55 60
 Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
 65 70 75 80
 Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
 85 90 95
 Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
 100 105 110
 Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
 115 120 125
 Leu Ala Glu Gly Pro Pro Ala Glu Phe His Glu Thr Thr Arg Lys Phe
 130 135 140
 Arg Arg Gly Glu Lys Arg Asn Asp Phe Lys Asp Ile Glu Asp Ile Lys
 145 150 155 160
 Lys Gln Lys Val Arg Ile Glu Gly Ser Leu Trp Trp Thr Tyr Thr Ser
 165 170 175
 Ser Ile Phe Phe Arg Ile Ile Phe Glu Ala Ala Phe Met Tyr Val Phe
 180 185 190
 Tyr Phe Leu Tyr Asn Gly Tyr His Leu Pro Trp Val Leu Lys Cys Gly
 195 200 205
 Ile Asp Pro Cys Pro Asn Leu Val Asp Cys Phe Ile Ser Arg Pro Thr
 210 215 220
 Glu Lys Thr Val Phe Thr Ile Phe Met Ile Ser Ala Ser Val Ile Cys
 225 230 235 240
 Met Leu Leu Asn Val Ala Glu Leu Cys Tyr Leu Leu Leu Lys Val Cys
 245 250 255
 Phe Arg Arg Ser Lys Arg Ala Gln Thr Gln Lys Asn His Pro Asn His
 260 265 270
 Ala Leu Lys Glu Ser Lys Gln Asn Glu Met Asn Glu Leu Ile Ser Asp
 275 280 285
 Ser Gly Gln Asn Ala Ile Thr Gly Phe Pro Ser
 290 295

<210> 355

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 355

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<210> 356

<211> 31

<212> DNA

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Tyr	Asn	Gly	Leu	Leu	Ile	Ala	Ile	Asn	Pro	Gln	Val	Pro	Glu	Asn	Gln
			20					25					30		
Asn	Leu	Ile	Ser	Asn	Ile	Lys	Glu	Met	Ile	Thr	Glu	Ala	Ser	Phe	Tyr
		35					40					45			
Leu	Phe	Asn	Ala	Thr	Lys	Arg	Arg	Val	Phe	Phe	Arg	Asn	Ile	Lys	Ile
	50					55					60				
Leu	Ile	Pro	Ala	Thr	Trp	Lys	Ala	Asn	Asn	Asn	Ser	Lys	Ile	Lys	Gln
65					70					75					80
Glu	Ser	Tyr	Glu	Lys	Ala	Asn	Val	Ile	Val	Thr	Asp	Trp	Tyr	Gly	Ala
				85					90					95	
His	Gly	Asp	Asp	Pro	Tyr	Thr	Leu	Gln	Tyr	Arg	Gly	Cys	Gly	Lys	Glu
			100					105					110		
Gly	Lys	Tyr	Ile	His	Phe	Thr	Pro	Asn	Phe	Leu	Leu	Asn	Asp	Asn	Leu
		115					120					125			
Thr	Ala	Gly	Tyr	Gly	Ser	Arg	Gly	Arg	Val	Phe	Val	His	Glu	Trp	Ala
	130					135					140				
His	Leu	Arg	Trp	Gly	Val	Phe	Asp	Glu	Tyr	Asn	Asn	Asp	Lys	Pro	Phe
145					150					155					160
Tyr	Ile	Asn	Gly	Gln	Asn	Gln	Ile	Lys	Val	Thr	Arg	Cys	Ser	Ser	Asp
				165					170					175	
Ile	Thr	Gly	Ile	Phe	Val	Cys	Glu	Lys	Gly	Pro	Cys	Pro	Gln	Glu	Asn
			180					185					190		
Cys	Ile	Ile	Ser	Lys	Leu	Phe	Lys	Glu	Gly	Cys	Thr	Phe	Ile	Tyr	Asn
		195					200					205			
Ser	Thr	Gln	Asn	Ala	Thr	Ala	Ser	Ile	Met	Phe	Met	Gln	Ser	Leu	Ser
	210					215					220				
Ser	Val	Val	Glu	Phe	Cys	Asn	Ala	Ser	Thr	His	Asn	Gln	Glu	Ala	Pro
225					230					235					240
Asn	Leu	Gln	Asn	Gln	Met	Cys	Ser	Leu	Arg	Ser	Ala	Trp	Asp	Val	Ile
				245					250					255	
Thr	Asp	Ser	Ala	Asp	Phe	His	His	Ser	Phe	Pro	Met	Asn	Gly	Thr	Glu
			260					265					270		
Leu	Pro	Pro	Pro	Pro	Thr	Phe	Ser	Leu	Val	Glu	Ala	Gly	Asp	Lys	Val
		275					280					285			
Val	Cys	Leu	Val	Leu	Asp	Val	Ser	Ser	Lys	Met	Ala	Glu	Ala	Asp	Arg
	290					295					300				
Leu	Leu	Gln	Leu	Gln	Gln	Ala	Ala	Glu	Phe	Tyr	Leu	Met	Gln	Ile	Val
305					310					315					320

Glu	Ile	His	Thr	Phe	Val	Gly	Ile	Ala	Ser	Phe	Asp	Ser	Lys	Gly	Glu
				325					330					335	
Ile	Arg	Ala	Gln	Leu	His	Gln	Ile	Asn	Ser	Asn	Asp	Asp	Arg	Lys	Leu
			340					345					350		
Leu	Val	Ser	Tyr	Leu	Pro	Thr	Thr	Val	Ser	Ala	Lys	Thr	Asp	Ile	Ser
		355					360					365			
Ile	Cys	Ser	Gly	Leu	Lys	Lys	Gly	Phe	Glu	Val	Val	Glu	Lys	Leu	Asn
	370					375					380				
Gly	Lys	Ala	Tyr	Gly	Ser	Val	Met	Ile	Leu	Val	Thr	Ser	Gly	Asp	Asp
385					390					395					400
Lys	Leu	Leu	Gly	Asn	Cys	Leu	Pro	Thr	Val	Leu	Ser	Ser	Gly	Ser	Thr
			405						410					415	
Ile	His	Ser	Ile	Ala	Leu	Gly	Ser	Ser	Ala	Ala	Pro	Asn	Leu	Glu	Glu
			420					425					430		
Leu	Ser	Arg	Leu	Thr	Gly	Gly	Leu	Lys	Phe	Phe	Val	Pro	Asp	Ile	Ser
		435				440						445			
Asn	Ser	Asn	Ser	Met	Ile	Asp	Ala	Phe	Ser	Arg	Ile	Ser	Ser	Gly	Thr
	450					455					460				
Gly	Asp	Ile	Phe	Gln	Gln	His	Ile	Gln	Leu	Glu	Ser	Thr	Gly	Glu	Asn
465					470					475					480
Val	Lys	Pro	His	His	Gln	Leu	Lys	Asn	Thr	Val	Thr	Val	Asp	Asn	Thr
			485						490					495	
Val	Gly	Asn	Asp	Thr	Met	Phe	Leu	Val	Thr	Trp	Gln	Ala	Ser	Gly	Pro
			500					505					510		
Pro	Glu	Ile	Ile	Leu	Phe	Asp	Pro	Asp	Gly	Arg	Lys	Tyr	Tyr	Thr	Asn
		515				520						525			
Asn	Phe	Ile	Thr	Asn	Leu	Thr	Phe	Arg	Thr	Ala	Ser	Leu	Trp	Ile	Pro
	530					535					540				
Gly	Thr	Ala	Lys	Pro	Gly	His	Trp	Thr	Tyr	Thr	Leu	Asn	Asn	Thr	His
545					550					555					560
His	Ser	Leu	Gln	Ala	Leu	Lys	Val	Thr	Val	Thr	Ser	Arg	Ala	Ser	Asn
			565						570					575	
Ser	Ala	Val	Pro	Pro	Ala	Thr	Val	Glu	Ala	Phe	Val	Glu	Arg	Asp	Ser
			580					585					590		
Leu	His	Phe	Pro	His	Pro	Val	Met	Ile	Tyr	Ala	Asn	Val	Lys	Gln	Gly
		595					600					605			
Phe	Tyr	Pro	Ile	Leu	Asn	Ala	Thr	Val	Thr	Ala	Thr	Val	Glu	Pro	Glu
	610					615					620				
Thr	Gly	Asp	Pro	Val	Thr	Leu	Arg	Leu	Leu	Asp	Asp	Gly	Ala	Gly	Ala
625					630					635					640
Asp	Val	Ile	Lys	Asn	Asp	Gly	Ile	Tyr	Ser	Arg	Tyr	Phe	Phe	Ser	Phe
			645						650					655	
Ala	Ala	Asn	Gly	Arg	Tyr	Ser	Leu	Lys	Val	His	Val	Asn	His	Ser	Pro
			660					665					670		
Ser	Ile	Ser													

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<210> 358
<211> 2773
<212> DNA
<213> Homo sapiens
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<400>	358					
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gaaatgataa	ctgaagcttc	attttaccta	tttaatgcta	ccaagagaag	agtatttttc	180
agaaatataa	agatttttaat	acctgccaca	tggaaagcta	ataataacag	caaaataaaa	240
caagaatcat	atgaaaaggc	aaatgtcata	gtgactgact	ggtatggggc	acatggagat	300
gatccataca	ccctacaata	cagaggggtgt	ggaaaagagg	gaaaatacat	tcatttcaca	360
cctaattttc	tactgaatga	taacttaaca	gctggctacg	gatcacgagg	ccgagtgttt	420
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ttctacataa	atgggcaaaa	tcaaattaaa	gtgacaaggt	gttcatctga	catcacaggc	540
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aaagaaggat	gcacctttat	ctacaatagc	acccaaaatg	caactgcac	aataatgttc	660
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gttgaaattc	ataccttcgt	gggcattgcc	agtttcgaca	gcaaaggaga	gatcagagcc	1020
cagctacacc	aaattaacag	caatgatgat	cgaaagtgtc	tggtttcata	tctgcccacc	1080
actgtatcag	ctaaaacaga	catcagcatt	tgttcagggc	ttaagaaagg	atttgagggtg	1140
gttgaaaaac	tgaatggaaa	agcttatggc	tctgtgatga	tattagtgc	cagcggagat	1200
gataagcttc	ttggcaattg	cttaccacct	gtgctcagca	gtgggttcaac	aattcactcc	1260
attgccctgg	gttcatctgc	agccccaat	ctggagggaat	tatcacgtct	tacaggaggt	1320
ttaaagttct	ttgttccaga	tatatcaaac	tccaatagca	tgattgatgc	tttcagtaga	1380
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<210> 362
<211> 244
<212> DNA
<213> Homo sapiens
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<210> 363
<211> 20
<212> PRT
<213> Homo sapiens
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<210> 364
<211> 60
<212> DNA
<213> Homo sapiens
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<210> 365
<211> 20
<212> PRT
<213> Homo sapiens
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Ile Asn Thr Gln
          20
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<400> 368						
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gcgccgcgcc	tctgaggcgc	agcatgtgaa	gcggagacgg	catccagtgg	ggggcgagcc	180
tctcagccgg	ccgggatggc	taccacggcc	gagctcttcg	aggagccttt	tgtggcagat	240
gaatatattg	aacgtcttgt	atggagaacc	ccaggaggag	gctctagagg	tggacctgaa	300
gctttttgatc	ctaaaagatt	attagaagaa	tttgtaaata	atattcagga	actccagata	360
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aggaagtccg	atgcagagca	atatctcaaa	aatctctatg	atctgtatac	aagaaccacc	1140
aatctttcca	gcaagctgat	ggagtttaat	ttaggtactg	ataaacagac	tttcttgtct	1200
aagcttatca	aatccatttt	catttcctat	ttggagaact	atattgaggt	ggagactgga	1260
tatttgaaaa	gcagaagtgc	tatgatccta	cagcgctatt	atgattcgaa	aaaccatcaa	1320
aagagatcca	ttggcacagg	aggtattcaa	gatttgaagg	aaagaattag	acagcgtacc	1380
aacttaccac	ttgggccaa	tatcgatact	catggggaga	cttttctatc	ccaagaagtg	1440
gtggttaatc	ttttacaaga	aaccaaacaa	gcctttgaaa	gatgtcatag	gctctctgat	1500
ccttctgact	taccaaggaa	tgcttccaga	atttttacca	ttcttggtgga	atttttatgt	1560

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attgagcata ttgattatgc tttggaaaca ggacttgctg gaattccctc ttcagattct 1620
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tttgacaaac agtttaaatga tcaccttatg ccactaataa gctcttctcc taagttatct 1740
gaatgccttc agaagaaaaa agaaataatt gaacaaatgg agatgaaatt ggatactggc 1800
attgatagga cattaaattg tatgattgga cagatgaagc atatttttggc tgcagaacag 1860
aagaaaacag attttaagcc agaagatgaa aacaatgttt tgattcaata tactaatgcc 1920
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gggaagaatg tggatacagt tttgatggaa cttggagtag gttttcatcg acttatctat 2040
gagcatcttc aacaatatct ctacagtgtg atgggtggca tgttggccat ttgtgatgta 2100
gccgaatata ggaagtgtgc caaagacttc aagattccaa tggattaca tctttttgat 2160
actctgcatg ctctttgcaa tcttctggta gttgccccag ataatttaaa gcaagtctgc 2220
tcaggagaac aacttgctaa tctggacaag aatatacttc actccttcgt acaacttcgt 2280
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<210> 369

<211> 708

<212> PRT

<213> Homo sapiens

<400> 369

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      20          25          30
Gly Pro Glu Ala Phe Asp Pro Lys Arg Leu Leu Glu Glu Phe Val Asn
      35          40          45
His Ile Gln Glu Leu Gln Ile Met Asp Glu Arg Ile Gln Arg Lys Val
      50          55          60
Glu Lys Leu Glu Gln Gln Cys Gln Lys Glu Ala Lys Glu Phe Ala Lys
      65          70          75          80
Lys Val Gln Glu Leu Gln Lys Ser Asn Gln Val Ala Phe Gln His Phe
      85          90          95
Gln Glu Leu Asp Glu His Ile Ser Tyr Val Ala Thr Lys Val Cys His
      100          105          110
Leu Gly Asp Gln Leu Glu Gly Val Asn Thr Pro Arg Gln Arg Ala Val
      115          120          125
Glu Ala Gln Lys Leu Met Lys Tyr Phe Asn Glu Phe Leu Asp Gly Glu
      130          135          140
Leu Lys Ser Asp Val Phe Thr Asn Ser Glu Lys Ile Lys Glu Ala Ala
      145          150          155          160
Asp Ile Ile Gln Lys Leu His Leu Ile Ala Gln Glu Leu Pro Phe Asp
      165          170          175
Arg Phe Ser Glu Val Lys Ser Lys Ile Ala Ser Lys Tyr His Asp Leu
      180          185          190
Glu Cys Gln Leu Ile Gln Glu Phe Thr Ser Ala Gln Arg Arg Gly Glu
      195          200          205
Ile Ser Arg Met Arg Glu Val Ala Ala Val Leu Leu His Phe Lys Gly
      210          215          220
Tyr Ser His Cys Val Asp Val Tyr Ile Lys Gln Cys Gln Glu Gly Ala
      225          230          235          240
Tyr Leu Arg Asn Asp Ile Phe Glu Asp Ala Gly Ile Leu Cys Gln Arg
      245          250          255
Val Asn Lys Gln Val Gly Asp Ile Phe Ser Asn Pro Glu Thr Val Leu

```

			260					265				270			
Ala	Lys	Leu	Ile	Gln	Asn	Val	Phe	Glu	Ile	Lys	Leu	Gln	Ser	Phe	Val
		275					280					285			
Lys	Glu	Gln	Leu	Glu	Glu	Cys	Arg	Lys	Ser	Asp	Ala	Glu	Gln	Tyr	Leu
	290					295					300				
Lys	Asn	Leu	Tyr	Asp	Leu	Tyr	Thr	Arg	Thr	Thr	Asn	Leu	Ser	Ser	Lys
305					310					315					320
Leu	Met	Glu	Phe	Asn	Leu	Gly	Thr	Asp	Lys	Gln	Thr	Phe	Leu	Ser	Lys
			325					330						335	
Leu	Ile	Lys	Ser	Ile	Phe	Ile	Ser	Tyr	Leu	Glu	Asn	Tyr	Ile	Glu	Val
			340					345					350		
Glu	Thr	Gly	Tyr	Leu	Lys	Ser	Arg	Ser	Ala	Met	Ile	Leu	Gln	Arg	Tyr
		355					360					365			
Tyr	Asp	Ser	Lys	Asn	His	Gln	Lys	Arg	Ser	Ile	Gly	Thr	Gly	Gly	Ile
	370					375					380				
Gln	Asp	Leu	Lys	Glu	Arg	Ile	Arg	Gln	Arg	Thr	Asn	Leu	Pro	Leu	Gly
385					390					395					400
Pro	Ser	Ile	Asp	Thr	His	Gly	Glu	Thr	Phe	Leu	Ser	Gln	Glu	Val	Val
			405						410					415	
Val	Asn	Leu	Leu	Gln	Glu	Thr	Lys	Gln	Ala	Phe	Glu	Arg	Cys	His	Arg
			420					425					430		
Leu	Ser	Asp	Pro	Ser	Asp	Leu	Pro	Arg	Asn	Ala	Phe	Arg	Ile	Phe	Thr
		435					440					445			
Ile	Leu	Val	Glu	Phe	Leu	Cys	Ile	Glu	His	Ile	Asp	Tyr	Ala	Leu	Glu
	450					455					460				
Thr	Gly	Leu	Ala	Gly	Ile	Pro	Ser	Ser	Asp	Ser	Arg	Asn	Ala	Asn	Leu
465					470					475					480
Tyr	Phe	Leu	Asp	Val	Val	Gln	Gln	Ala	Asn	Thr	Ile	Phe	His	Leu	Phe
			485						490					495	
Asp	Lys	Gln	Phe	Asn	Asp	His	Leu	Met	Pro	Leu	Ile	Ser	Ser	Ser	Pro
			500					505					510		
Lys	Leu	Ser	Glu	Cys	Leu	Gln	Lys	Lys	Lys	Glu	Ile	Ile	Glu	Gln	Met
		515					520					525			
Glu	Met	Lys	Leu	Asp	Thr	Gly	Ile	Asp	Arg	Thr	Leu	Asn	Cys	Met	Ile
	530					535					540				
Gly	Gln	Met	Lys	His	Ile	Leu	Ala	Ala	Glu	Gln	Lys	Lys	Thr	Asp	Phe
545					550					555					560
Lys	Pro	Glu	Asp	Glu	Asn	Asn	Val	Leu	Ile	Gln	Tyr	Thr	Asn	Ala	Cys
			565						570					575	
Val	Lys	Val	Cys	Ala	Tyr	Val	Arg	Lys	Gln	Val	Glu	Lys	Ile	Lys	Asn
			580					585					590		
Ser	Met	Asp	Gly	Lys	Asn	Val	Asp	Thr	Val	Leu	Met	Glu	Leu	Gly	Val
		595					600					605			
Arg	Phe	His	Arg	Leu	Ile	Tyr	Glu	His	Leu	Gln	Gln	Tyr	Ser	Tyr	Ser
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690
Arg His Phe Ser
705

695

700

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<211> 60
<212> DNA
<213> Homo sapiens

<400> 371
agtagaattt cctctggaac tggagacatt ttccagcaac atattcagct tgaaagtaca 60

<210> 372
<211> 60
<212> DNA
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ccagagactg gagatcctgt tacgctgaga ctcccttgatg atggagcagg tgctgatggt 60

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<210> 374
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<211> 60
<212> DNA
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<213> Homo sapiens

Leu Gln Ser Ala Val Ser Asn Ile Ala Gln Ala Pro Leu Phe Ile Pro

1 5 10 15

Pro Asn Ser Asp

20

<211> 20

<212> PRT

<213> Homo sapiens

Val Asn His Ser Pro Ser Ile Ser Thr Pro Ala His Ser Ile Pro Gly

1 5 10 15

Ser His Ala Met

20

<211> 20

<212> PRT

<213> Homo sapiens

Pro Glu Thr Gly Asp Pro Val Thr Leu Arg Leu Leu Asp Asp Gly Ala

1 5 10 15

Gly Ala Asp Val

20

<211> 20

<212> PRT

<213> Homo sapiens

Ala Val Pro Pro Ala Thr Val Glu Ala Phe Val Glu Arg Asp Ser Leu

1 5 10 15

His Phe Pro His

20

<210> 380


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<210> 389
<211> 20
<212> PRT
<213> Homo sapiens
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Ala Ala Ala Ala Ser Thr Gln Pro Glu Asp Asp Ile Asn Thr Gln Arg
1 5 10 15
Lys Lys Ser Gln
20

<213> Homo sapiens

Thr Gln Pro Glu Asp Asp Ile Asn Thr Gln Arg Lys Lys Ser Gln Glu
 1 5 10 15
 Lys Met Arg Glu
 20

<213> Homo sapiens

Asp Ile Asn Thr Gln Arg Lys Lys Ser Gln Glu Lys Met Arg Glu Val
1 5 10 15
Thr Asp Ser Pro
20

<213> Homo sapiens

Arg Lys Lys Ser Gln Glu Lys Met Arg Glu Val Thr Asp Ser Pro Gly
1 5 10 15
Arg Pro Arg Glu
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<213> Homo sapiens

Glu Lys Met Arg Glu Val Thr Asp Ser Pro Gly Arg Pro Arg Glu Leu
1 5 10 15
Thr Ile Pro Gln
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Val Thr Asp Ser Pro Gly Arg Pro Arg Glu Leu Thr Ile Pro Gln Thr
 1              5              10              15
Ser Ser His Gly
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Gly Arg Pro Arg Glu Leu Thr Ile Pro Gln Thr Ser Ser His Gly Ala
 1           5           10           15
Asn Arg Phe
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Met Asn Lys Leu Tyr Ile Gly Asn Leu Ser Glu Asn Ala Ala Pro Ser
 1             5             10             15
Asp Leu Glu
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 1                5                10                15
Lys Ile Pro Val
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<210> 398
<211> 20
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<213> Homo sapiens
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Ser Ile Phe Lys Asp Ala Lys Ile Pro Val Ser Gly Pro Phe Leu Val
 1 5 10 15
 Lys Thr Gly Tyr
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<213> Homo sapiens

Ser Gly Pro Phe Leu Val Lys Thr Gly Tyr Ala Phe Val Asp Cys Pro
1 5 10 15
Asp Glu Ser Trp
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<213> Homo sapiens

Ala Phe Val Asp Cys Pro Asp Glu Ser Trp Ala Leu Lys Ala Ile Glu
1 5 10 15
Ala Leu Ser Gly
20

<213> Homo sapiens

Ala Leu Lys Ala Ile Glu Ala Leu Ser Gly Lys Ile Glu Leu His Gly
1 5 10 15
Lys Pro Ile Glu
20

<213> Homo sapiens

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1 5 10 15
Lys Arg Gln Arg
20

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<210> 407
<211> 20
<212> PRT
<213> Homo sapiens
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Asn Gly Phe Gln Leu Glu Asn Phe Thr Leu Lys Val Ala Tyr Ile Pro
1 5 10 15
Asp Glu Thr Ala
20

<211> 20

<213> Homo sapiens

Lys Val Ala Tyr Ile Pro Asp Glu Thr Ala Ala Gln Gln Asn Pro Leu
1 5 10 15
Gln Gln Pro Arg
20

<211> 20

<213> Homo sapiens

Ala Gln Gln Asn Pro Leu Gln Gln Pro Arg Gly Arg Arg Gly Leu Gly
1 5 10 15
Gln Arg Gly Ser
20

<211> 20

<213> Homo sapiens

Gly Arg Arg Gly Leu Gly Gln Arg Gly Ser Ser Arg Gln Gly Ser Pro
1 5 10 15
Gly Ser Val Ser
20

<211> 20

<213> Homo sapiens

Ser Arg Gln Gly Ser Pro Gly Ser Val Ser Lys Gln Lys Pro Cys Asp
1 5 10 15
Leu Pro Leu Arg
20

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<210> 416
<211> 20
<212> PRT
<213> Homo sapiens
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gccctagcca	acgccgcatg	agaggggagtg	tgccgagggc	ttctgagaag	gtttctctca	120
catctagaaa	gaagcgctta	agatgtggca	gccccctcttc	ttcaagtggc	tcttgctctg	180
ttgccctggg	agttctcaaa	ttgctgcagc	agcctccacc	cagcctgagg	atgacatcaa	240
tacacagagg	aagaagagtc	aggaaaagat	gagagaagtt	acagactctc	ctgggcgacc	300

ccgagagctt accattcctc agacttcttc acatgggtgct aacagatttg ttcctaaaag 360
 taaagctcta gaggccgtca aattggcaat agaagccggg ttccaccata ttgattctgc 420
 acatgtttac aataatgagg agcaggttgg actgg 455

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 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 421
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<210> 422
 <211> 34
 <212> DNA
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<220>
 <223> PCR primer

<400> 422
 catgagaatt catcacatgc ccttgaaggc tccc 34

<210> 423
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 423
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 Tyr Phe Glu Asn Phe Leu Ala Ala Trp Arg Pro Val Lys Ala Ser Asp
 20 25 30
 Gly Asp Tyr Tyr Thr Leu Ala Val Pro Met Gly Asp Val Pro Met Asp
 35 40 45
 Gly Ile Ser Val Ala Asp Ile Gly Ala Ala Val Ser Ser Ile Phe Asn
 50 55 60
 Ser Pro Glu Glu Phe Leu Gly Lys Ala Val Gly Leu Ser Ala Glu Ala
 65 70 75 80
 Leu Thr Ile Gln Gln Tyr Ala Asp Val Leu Ser Lys Ala Leu Gly Lys
 85 90 95
 Glu Val Arg Asp Ala Lys Ile Thr Pro Glu Ala Phe Glu Lys Leu Gly
 100 105 110
 Phe Pro Ala Ala Lys Glu Ile Ala Asn Met Cys Arg Phe Tyr Glu Met
 115 120 125
 Lys Pro Asp Arg Asp Val Asn Leu Thr His Gln Leu Asn Pro Lys Val
 130 135 140
 Lys Ser Phe Ser Gln Phe Ile Ser Glu Asn Gln Gly Ala Phe Lys Gly
 145 150 155 160
 Met

<210> 424
 <211> 489
 <212> DNA
 <213> Homo sapiens

<400> 424
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 ccgatgggag atgtaccaat ggatgggtatc tctgttgctg atattggagc agccgtctct 180
 agcatttttta attctccaga ggaattttta ggcaaggccg tggggctcag tgcagaagca 240
 ctaacaatac agcaatatgc tgatgttttg tccaaggctt tgggggaaaga agtccgagat 300
 gcaaagatta ccccggaagc tttcgagaag ctgggattcc ctgcagcaaa ggaaatagcc 360
 aatatgtgtc gtttctatga aatgaagcca gaccgagatg tcaatctcac ccaccaacta 420
 aatcccaaag tcaaaagctt cagccagttt atctcagaga accagggagc cttcaagggc 480
 atgtgatga 489

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<220>
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<400> 425
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<210> 426
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 426
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<210> 427
 <211> 586
 <212> PRT
 <213> Homo sapiens

<400> 427
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 1 5 10 15
 Ser Glu Asn Ala Ala Pro Ser Asp Leu Glu Ser Ile Phe Lys Asp Ala
 20 25 30
 Lys Ile Pro Val Ser Gly Pro Phe Leu Val Lys Thr Gly Tyr Ala Phe
 35 40 45
 Val Asp Cys Pro Asp Glu Ser Trp Ala Leu Lys Ala Ile Glu Ala Leu
 50 55 60

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Ser 65	Gly	Lys	Ile	Glu 70	Leu	His	Gly	Lys	Pro	Ile 75	Glu	Val	Glu	His	Ser 80
Val	Pro	Lys	Arg	Gln 85	Arg	Ile	Arg	Lys	Leu 90	Gln	Ile	Arg	Asn	Ile 95	Pro
Pro	His	Leu	Gln 100	Trp	Glu	Val	Leu	Asp 105	Ser	Leu	Leu	Val	Gln 110	Tyr	Gly
Val	Val	Glu 115	Ser	Cys	Glu	Gln	Val	Asn 120	Thr	Asp	Ser	Glu 125	Thr	Ala	Val
Val	Asn 130	Val	Thr	Tyr	Ser	Ser	Lys 135	Asp	Gln	Ala	Arg	Gln 140	Ala	Leu	Asp
Lys 145	Leu	Asn	Gly	Phe 150	Gln	Leu	Glu	Asn	Phe	Thr	Leu	Lys	Val	Ala	Tyr 160
Ile	Pro	Asp	Glu	Thr 165	Ala	Ala	Gln	Gln	Asn	Pro	Leu	Gln	Gln	Pro	Arg
Gly	Arg	Arg	Gly 180	Leu	Gly	Gln	Arg	Gly 185	Ser	Ser	Arg	Gln	Gly 190	Ser	Pro
Gly	Ser	Val 195	Ser	Lys	Gln	Lys	Pro	Cys 200	Asp	Leu	Pro	Leu 205	Arg	Leu	Leu
Val	Pro	Thr	Gln	Phe	Val	Gly 215	Ala	Ile	Ile	Gly	Lys	Glu	Gly 220	Ala	Thr
Ile 225	Arg	Asn	Ile	Thr 230	Lys	Gln	Thr	Gln	Ser	Lys	Ile	Asp	Val	His	Arg 240
Lys	Glu	Asn	Ala	Gly 245	Ala	Ala	Glu	Lys	Ser	Ile	Thr	Ile	Leu	Ser	Thr 255
Pro	Glu	Gly	Thr 260	Ser	Ala	Ala	Cys	Lys 265	Ser	Ile	Leu	Glu	Ile 270	Met	His
Lys	Glu	Ala 275	Gln	Asp	Ile	Lys	Phe	Thr	Glu	Glu	Ile	Pro	Leu	Lys	Ile
Leu	Ala 290	His	Asn	Asn	Phe	Val 295	Gly	Arg	Leu	Ile	Gly	Lys	Glu	Gly	Arg
Asn 305	Leu	Lys	Lys	Ile	Glu 310	Gln	Asp	Thr	Asp	Thr	Lys	Ile	Thr	Ile	Ser 320
Pro	Leu	Gln	Glu	Leu	Thr 325	Leu	Tyr	Asn	Pro	Glu	Arg	Thr	Ile	Thr	Val 335
Lys	Gly	Asn	Val 340	Glu	Thr	Cys	Ala	Lys 345	Ala	Glu	Glu	Glu	Ile	Met	Lys
Lys	Ile	Arg 355	Glu	Ser	Tyr	Glu	Asn	Asp 360	Ile	Ala	Ser	Met	Asn	Leu	Gln
Ala	His 370	Leu	Ile	Pro	Gly	Leu 375	Asn	Leu	Asn	Ala	Leu	Gly	Leu	Phe	Pro
Pro 385	Thr	Ser	Gly	Met	Pro	Pro	Pro	Thr	Ser	Gly	Pro	Pro	Ser	Ala	Met 400
Thr	Pro	Pro	Tyr	Pro 405	Gln	Phe	Glu	Gln	Ser	Glu	Thr	Glu	Thr	Val	His 415
Leu	Phe	Ile	Pro	Ala 420	Leu	Ser	Val	Gly	Ala	Ile	Ile	Gly	Lys	Gln	Gly
Gln	His	Ile 435	Lys	Gln	Leu	Ser	Arg	Phe	Ala	Gly	Ala	Ser	Ile	Lys	Ile
Ala	Pro 450	Ala	Glu	Ala	Pro	Asp	Ala	Lys	Val	Arg	Met	Val	Ile	Ile	Thr
Gly 465	Pro	Pro	Glu	Ala	Gln 470	Phe	Lys	Ala	Gln	Gly	Arg	Ile	Tyr	Gly	Lys 480
Ile	Lys	Glu	Glu	Asn 485	Phe	Val	Ser	Pro	Lys	Glu	Glu	Val	Lys	Leu	Glu 495

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<210> 428
<211> 1764
<212> DNA
<213> Homo sapiens
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$\langle 210 \rangle$	429
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$\langle 212 \rangle$	DNA

$\langle 220 \rangle$

<400> 429

35

<210> 430

<211> 881

<212> PRT

<213> Homo sapiens

<400> 430

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Tyr	Asn	Gly	Leu	Leu	Ile	Ala	Ile	Asn	Pro	Gln	Val	Pro	Glu	Asn	Gln
			20					25					30		
Asn	Leu	Ile	Ser	Asn	Ile	Lys	Glu	Met	Ile	Thr	Glu	Ala	Ser	Phe	Tyr
		35					40					45			
Leu	Phe	Asn	Ala	Thr	Lys	Arg	Arg	Val	Phe	Phe	Arg	Asn	Ile	Lys	Ile
	50					55					60				
Leu	Ile	Pro	Ala	Thr	Trp	Lys	Ala	Asn	Asn	Asn	Ser	Lys	Ile	Lys	Gln
65					70					75					80
Glu	Ser	Tyr	Glu	Lys	Ala	Asn	Val	Ile	Val	Thr	Asp	Trp	Tyr	Gly	Ala
				85					90					95	
His	Gly	Asp	Asp	Pro	Tyr	Thr	Leu	Gln	Tyr	Arg	Gly	Cys	Gly	Lys	Glu
			100					105					110		
Gly	Lys	Tyr	Ile	His	Phe	Thr	Pro	Asn	Phe	Leu	Leu	Asn	Asp	Asn	Leu
		115					120					125			
Thr	Ala	Gly	Tyr	Gly	Ser	Arg	Gly	Arg	Val	Phe	Val	His	Glu	Trp	Ala
	130					135					140				
His	Leu	Arg	Trp	Gly	Val	Phe	Asp	Glu	Tyr	Asn	Asn	Asp	Lys	Pro	Phe
145					150					155					160
Tyr	Ile	Asn	Gly	Gln	Asn	Gln	Ile	Lys	Val	Thr	Arg	Cys	Ser	Ser	Asp
				165					170					175	
Ile	Thr	Gly	Ile	Phe	Val	Cys	Glu	Lys	Gly	Pro	Cys	Pro	Gln	Glu	Asn
			180					185					190		
Cys	Ile	Ile	Ser	Lys	Leu	Phe	Lys	Glu	Gly	Cys	Thr	Phe	Ile	Tyr	Asn
		195					200					205			
Ser	Thr	Gln	Asn	Ala	Thr	Ala	Ser	Ile	Met	Phe	Met	Gln	Ser	Leu	Ser
	210					215					220				
Ser	Val	Val	Glu	Phe	Cys	Asn	Ala	Ser	Thr	His	Asn	Gln	Glu	Ala	Pro
225					230					235					240
Asn	Leu	Gln	Asn	Gln	Met	Cys	Ser	Leu	Arg	Ser	Ala	Trp	Asp	Val	Ile
				245					250					255	
Thr	Asp	Ser	Ala	Asp	Phe	His	His	Ser	Phe	Pro	Met	Asn	Gly	Thr	Glu
			260					265					270		
Leu	Pro	Pro	Pro	Pro	Thr	Phe	Ser	Leu	Val	Glu	Ala	Gly	Asp	Lys	Val
		275					280					285			
Val	Cys	Leu	Val	Leu	Asp	Val	Ser	Ser	Lys	Met	Ala	Glu	Ala	Asp	Arg
	290					295					300				
Leu	Leu	Gln	Leu	Gln	Gln	Ala	Ala	Glu	Phe	Tyr	Leu	Met	Gln	Ile	Val
305					310					315					320

Glu	Ile	His	Thr	Phe	Val	Gly	Ile	Ala	Ser	Phe	Asp	Ser	Lys	Gly	Glu
				325					330					335	
Ile	Arg	Ala	Gln	Leu	His	Gln	Ile	Asn	Ser	Asn	Asp	Asp	Arg	Lys	Leu
			340					345					350		
Leu	Val	Ser	Tyr	Leu	Pro	Thr	Thr	Val	Ser	Ala	Lys	Thr	Asp	Ile	Ser
		355					360					365			
Ile	Cys	Ser	Gly	Leu	Lys	Lys	Gly	Phe	Glu	Val	Val	Glu	Lys	Leu	Asn
	370					375					380				
Gly	Lys	Ala	Tyr	Gly	Ser	Val	Met	Ile	Leu	Val	Thr	Ser	Gly	Asp	Asp
385					390					395					400
Lys	Leu	Leu	Gly	Asn	Cys	Leu	Pro	Thr	Val	Leu	Ser	Ser	Gly	Ser	Thr
				405					410					415	
Ile	His	Ser	Ile	Ala	Leu	Gly	Ser	Ser	Ala	Ala	Pro	Asn	Leu	Glu	Glu
			420					425					430		
Leu	Ser	Arg	Leu	Thr	Gly	Gly	Leu	Lys	Phe	Phe	Val	Pro	Asp	Ile	Ser
		435					440					445			
Asn	Ser	Asn	Ser	Met	Ile	Asp	Ala	Phe	Ser	Arg	Ile	Ser	Ser	Gly	Thr
	450					455					460				
Gly	Asp	Ile	Phe	Gln	Gln	His	Ile	Gln	Leu	Glu	Ser	Thr	Gly	Glu	Asn
465					470					475					480
Val	Lys	Pro	His	His	Gln	Leu	Lys	Asn	Thr	Val	Thr	Val	Asp	Asn	Thr
				485					490					495	
Val	Gly	Asn	Asp	Thr	Met	Phe	Leu	Val	Thr	Trp	Gln	Ala	Ser	Gly	Pro
			500					505					510		
Pro	Glu	Ile	Ile	Leu	Phe	Asp	Pro	Asp	Gly	Arg	Lys	Tyr	Tyr	Thr	Asn
		515					520					525			
Asn	Phe	Ile	Thr	Asn	Leu	Thr	Phe	Arg	Thr	Ala	Ser	Leu	Trp	Ile	Pro
	530					535					540				
Gly	Thr	Ala	Lys	Pro	Gly	His	Trp	Thr	Tyr	Thr	Leu	Asn	Asn	Thr	His
545					550					555					560
His	Ser	Leu	Gln	Ala	Leu	Lys	Val	Thr	Val	Thr	Ser	Arg	Ala	Ser	Asn
				565					570					575	
Ser	Ala	Val	Pro	Pro	Ala	Thr	Val	Glu	Ala	Phe	Val	Glu	Arg	Asp	Ser
			580					585					590		
Leu	His	Phe	Pro	His	Pro	Val	Met	Ile	Tyr	Ala	Asn	Val	Lys	Gln	Gly
		595					600					605			
Phe	Tyr	Pro	Ile	Leu	Asn	Ala	Thr	Val	Thr	Ala	Thr	Val	Glu	Pro	Glu
	610					615					620				
Thr	Gly	Asp	Pro	Val	Thr	Leu	Arg	Leu	Leu	Asp	Asp	Gly	Ala	Gly	Ala
625					630					635					640
Asp	Val	Ile	Lys	Asn	Asp	Gly	Ile	Tyr	Ser	Arg	Tyr	Phe	Phe	Ser	Phe
				645					650					655	
Ala	Ala	Asn	Gly	Arg	Tyr	Ser	Leu	Lys	Val	His	Val	Asn	His	Ser	Pro
			660					665					670		
Ser	Ile	Ser	Thr	Pro	Ala	His	Ser	Ile	Pro	Gly	Ser	His	Ala	Met	Tyr
		675					680					685			
Val	Pro	Gly	Tyr	Thr	Ala	Asn	Gly	Asn	Ile	Gln	Met	Asn	Ala	Pro	Arg
	690					695					700				
Lys	Ser	Val	Gly	Arg	Asn	Glu	Glu	Glu	Arg	Lys	Trp	Gly	Phe	Ser	Arg
705					710					715					720
Val	Ser	Ser	Gly	Gly	Ser	Phe	Ser	Val	Leu	Gly	Val	Pro	Ala	Gly	Pro
				725					730					735	
His	Pro	Asp	Val	Phe	Pro	Pro	Cys	Lys	Ile	Ile	Asp	Leu	Glu	Ala	Val
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1000700-113001

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<211> 2646
<212> DNA
<213> Homo sapiens
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ctcattgcaa	ttaatcctca	ggtacctgag	aatcagaacc	tcatctcaaa	cattaaggaa	120
atgataactg	aagcttcatt	ttacctat	aatgctacca	agagaagagt	atttttcaga	180
aataataaaga	ttttaatacc	tgccacatgg	aaagctaata	ataacagcaa	aataaaacaa	240
gaatcatatg	aaaaggcaaa	tgtcatagt	actgactgg	atgggggcaca	tggagatgat	300
ccatacaccc	tacaatacag	aggggtgtgga	aaagagggaa	aatacattca	tttcacacct	360
aattttcctac	tgaatgataa	cttaacagct	ggctacggat	cacgaggccg	agtgtttgtc	420
catgaatggg	cccacctccg	ttgggggtgtg	ttcgatgagt	ataacaatga	caaacctttc	480
tacataaatg	ggcaaaatca	aattaaagt	acaaggtgtt	catctgacat	cacaggcatt	540
tttgtgtgtg	aaaaagggtcc	ttgcccccaa	gaaaactgta	ttattagtaa	gcttttttaa	600
gaaggatgca	cctttatcta	caatagcacc	caaaatgcaa	ctgcatcaat	aatgttcatg	660
caaagtttat	cttctgtgg	tgaattttgt	aatgcaagta	cccacaacca	agaagcacca	720
aacctacaga	accagatgtg	cagcctcaga	agtgcattgg	atgtaatcac	agactctgct	780
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cttgtagagg	ctggtgacaa	agtggctctg	ttagtgtctg	atgtgtccag	caagatggca	900
gaggctgaca	gactccttca	actacaacaa	gccgcagaat	tttattttgat	gcagattggt	960
gaaattcata	ccttcgtggg	cattgccagt	ttcgacagca	aaggagagat	cagagcccag	1020
ctacacccaaa	ttaacagcaa	tgatgatcga	aagttgctgg	tttcatatct	gccaccact	1080
gtatcagcta	aaacagacat	cagcatttgt	tcagggtt	agaaaggatt	tgagggtggt	1140
gaaaaactga	atggaaaagc	ttatggctct	gtgatgat	tagtgaccag	cggagatgat	1200
aagcttcttg	gcaattgctt	acctactgtg	ctcagcagtg	gttcaacaat	tcactccatt	1260
gccctgggtt	catctgcagc	cccaaactctg	gaggaattat	cacgtcttac	aggaggttta	1320
aagttctttg	ttccagatat	atcaaactcc	aatagcatga	ttgatgcttt	cagtagaatt	1380
tcctctggaa	ctggagacat	tttccagcaa	catattcagc	ttgaaagtac	aggtgaaaat	1440
gtcaaacctc	accatcaatt	gaaaaacaca	gtgactgtgg	ataatactgt	gggcaacgac	1500
actatgtttc	tagttacgtg	gcaggccagt	ggtcctcctg	agattatatt	atgtgatcct	1560
gatggacgaa	aatactacac	aaataatttt	atcaccaatc	taacttttcg	gacagctagt	1620
ctttggattc	caggaacagc	taagcctggg	cactggactt	acaccctgaa	caatacccat	1680

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<210> 432
<211> 36
<212> DNA
<213> Artificial Sequence
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<400> 433															
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			20					25						30	
Thr	Gln	Pro	Glu	Asp	Asp	Ile	Asn	Thr	Gln	Arg	Lys	Lys	Ser	Gln	Glu
		35					40					45			
Lys	Met	Arg	Glu	Val	Thr	Asp	Ser	Pro	Gly	Arg	Pro	Arg	Glu	Leu	Thr
	50					55					60				
Ile	Pro	Gln	Thr	Ser	Ser	His	Gly	Ala	Asn	Arg	Phe	Val	Pro	Lys	Ser
65					70					75					80
Lys	Ala	Leu	Glu	Ala	Val	Lys	Leu	Ala	Ile	Glu	Ala	Gly	Phe	His	His
				85					90					95	
Ile	Asp	Ser	Ala	His	Val	Tyr	Asn	Asn	Glu	Glu	Gln	Val	Gly	Leu	Ala
			100					105					110		
Ile	Arg	Ser	Lys	Ile	Ala	Asp	Gly	Ser	Val	Lys	Arg	Glu	Asp	Ile	Phe
		115					120					125			
Tyr	Thr	Ser	Lys	Leu	Trp	Ser	Asn	Ser	His	Arg	Pro	Glu	Leu	Val	Arg
	130					135					140				
Pro	Ala	Leu	Glu	Arg	Ser	Leu	Lys	Asn	Leu	Gln	Leu	Asp	Tyr	Val	Asp

145 150 155 160
 Leu Tyr Leu Ile His Phe Pro Val Ser Val Lys Pro Gly Glu Glu Val
 165 170 175
 Ile Pro Lys Asp Glu Asn Gly Lys Ile Leu Phe Asp Thr Val Asp Leu
 180 185 190
 Cys Ala Thr Trp Glu Ala Met Glu Lys Cys Lys Asp Ala Gly Leu Ala
 195 200 205
 Lys Ser Ile Gly Val Ser Asn Phe Asn His Arg Leu Leu Glu Met Ile
 210 215 220
 Leu Asn Lys Pro Gly Leu Lys Tyr Lys Pro Val Cys Asn Gln Val Glu
 225 230 235 240
 Cys His Pro Tyr Phe Asn Gln Arg Lys Leu Leu Asp Phe Cys Lys Ser
 245 250 255
 Lys Asp Ile Val Leu Val Ala Tyr Ser Ala Leu Gly Ser His Arg Glu
 260 265 270
 Glu Pro Trp Val Asp Pro Asn Ser Pro Val Leu Leu Glu Asp Pro Val
 275 280 285
 Leu Cys Ala Leu Ala Lys Lys His Lys Arg Thr Pro Ala Leu Ile Ala
 290 295 300
 Leu Arg Tyr Gln Leu Gln Arg Gly Val Val Val Leu Ala Lys Ser Tyr
 305 310 315 320
 Asn Glu Gln Arg Ile Arg Gln Asn Val Gln Val Phe Glu Phe Gln Leu
 325 330 335
 Thr Ser Glu Glu Met Lys Ala Ile Asp Gly Leu Asn Arg Asn Val Arg
 340 345 350
 Tyr Leu Thr Leu Asp Ile Phe Ala Gly Pro Pro Asn Tyr Pro Phe Ser
 355 360 365
 Asp Glu Tyr
 370

<210> 434
 <211> 1119
 <212> DNA
 <213> Homo sapiens

<400> 434
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 tgccctggga gttctcaaat tgctgcagca gcctccaccc agcctgagga tgacatcaat 120
 acacagagga agaagagtca ggaaaagatg agagaagtta cagactctcc tgggcgaccc 180
 cgagagctta ccattcctca gacttcttca catggtgcta acagatttgt tcctaaaagt 240
 aaagctctag aggccgtcaa attggcaata gaagccgggt tccaccatat tgattctgca 300
 catgtttaca ataatgagga gcagggttga ctggccatcc gaagcaagat tgcagatggc 360
 agtgtgaaga gagaagacat attctacact tcaaagcttt ggagcaattc ccatcgacca 420
 gagttggtcc gaccagcctt ggaaagggtca ctgaaaaatc ttcaattgga ctatgttgac 480
 ctctatctta ttcattttcc agtgtctgta aagccagggt aggaagtgat cccaaaagat 540
 gaaaatggaa aaatactatt tgacacagtg gatctctgtg ccacatggga ggccatggag 600
 aagtgtaaag atgcaggatt ggccaagtcc atcgggggtg ccaacttcaa ccacaggctg 660
 ctggagatga tcctcaacaa gccagggtc aagtacaagc ctgtctgcaa ccagggtgaa 720
 tgtcatcctt acttcaacca gagaaaactg ctggatttct gcaagtcaaa agacattgtt 780
 ctggttgctt atagtgtctt gggatcccat cgagaagaac catgggtgga cccgaactcc 840
 ccggtgctct tggaggaccc agtcctttgt gccttggcaa aaaagcacia gcgaacccca 900
 gccctgattg ccctgcgcta ccagctgcag cgtgggggtg tggtcctggc caagagctac 960
 aatgagcagc gcatcagaca gaacgtgcag gtgtttgaat tccagttgac ttcagaggag 1020

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<400> 439
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agatgtaaac	caatttcagg	acacgactac	cttttctggt	acagacagac	catgatgcgg	180
ggactggagt	tgctcattta	ctttaacaac	aacgttccga	tagatgattc	agggatgccc	240
gaggatcgat	tctcagctaa	gatgcctaata	gcattcattct	ccactctgaa	gatccagccc	300
tcagaaccca	gggactcagc	tgtgtacttc	tgtgccagca	gttttagttgg	agcaaact	360
gaagctttct	ttggacaagg	caccagactc	acagttgtag	aggacctgaa	caagggtgttc	420
ccacccgagg	tcgctgtgtt	tgagccatca	gaagcagaga	tctcccacac	ccaaaaggcc	480
acactgggtg	gcctggccac	aggcttcttc	cctgaccacg	tggagctgag	ctgggtgggtg	540
aatgggaagg	aggtgcacag	tggggtcagc	acggaccgcg	agccctcaa	ggagcagccc	600
gccctcaatg	actccagata	ctgcctgagc	agccgcctga	gggtctcggc	caccttctgg	660
cagaaccccc	gcaaccactt	ccgctgtcaa	gtccagttct	acgggctctc	ggagaatgac	720
gagtggaccc	aggatagggc	caaaccgctc	accagatcg	tcagcgccga	ggcctggggt	780
agagcagact	gtggctttac	ctcgggtgtc	taccagcaag	gggtcctgtc	tgccaccatc	840
ctctatgaga	tcctgctagg	gaaggccacc	ctgtatgctg	tgctgggtcag	cgccttctgtg	900
ttgatggcca	tggtcaagag	aaaggatttc	tga			933

<210> 440

<211> 822

<212> DNA

<213> Homo sapiens

<400> 440

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gagaatgtgg	agcagcatcc	ttcaaccctg	agtgtccagg	agggagacag	cgctgttata	120
aagtgtactt	attcagacag	tgctcaaac	tacttccctt	ggtataagca	agaacttgga	180
aaaagacctc	agcttattat	agacattcgt	tcaaagtgtg	gcgaaaagaa	agaccaacga	240
attgctgtta	cattgaacaa	gacagccaaa	catttctccc	tgcacatcac	agagacccaa	300
cctgaagact	cggctgtcta	cttctgtgca	gcaagtatac	tgaacaccgg	taaccagttc	360
tatttttggga	cagggacaag	tttgacggtc	attccaaata	tccagaaccc	tgaccctgcc	420
gtgtaccagc	tgagagactc	taaatccagt	gacaagtctg	tctgcctatt	caccgatttt	480
gatttctcaa	caaagtgtgc	acaaagtaag	gatttctgat	tgtatatcac	agacaaaact	540
gtgctagaca	tgaggtctat	ggacttcaag	agcaacagtg	ctgtggcctg	gagcaacaaa	600
tctgactttg	catgtgcaaa	cgccttcaac	aacagcatta	ttccagaaga	caccttcttc	660
cccagcccag	aaagttcctg	tgatgtcaag	ctggctcgaga	aaagctttga	aacagatacg	720
aacctaaact	ttcaaaacct	gtcagtgatt	gggttccgaa	tcctcctcct	gaaagtggcc	780
gggtttaatc	tgctcatgac	gctgcggctg	tggtccagct	ga		822

<210> 441

<211> 2311

<212> DNA

<213> Homo sapiens

<400> 441

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aagagttgggt	gtttgtctag	gaagagattt	aagcatgctt	gcttaccag	actcagagaa	120
gtctccctgt	tctgtcctag	ctatgttcct	gtgttgtgtg	cattcgtctt	ttccagagca	180
aaccgcccag	agtagaagat	ggattggggc	acgtgcaga	cgatcctggg	gggtgtgaac	240
aaacactcca	ccagcattgg	aaagatctgg	ctcaccgtcc	tcttcatttt	tcgcattatg	300
atcctcgctt	tggtgcaaa	ggaggtgtgg	ggagatgagc	aggccgactt	tgtctgcaac	360
accctgcagc	caggtgcaa	gaacgtgtgc	tacgatcact	acttcccat	ctccacatc	420
cggctatggg	ccctgcagct	gatcttcgtg	tccagcccag	cgctcctagt	ggccatgcac	480
gtggcctacc	ggagacatga	gaagaagagg	aagttcatca	agggggagat	aaagagtga	540
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<210> 442
<211> 226
<212> PRT
<213> Homo sapiens
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Met Asp Trp Gly Thr Leu Gln Thr Ile Leu Gly Gly Val Asn Lys His
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Ile Met Ile Leu Val Val Ala Ala Lys Glu Val Trp Gly Asp Glu Gln
35 40 45

Tyr Asp His Tyr Phe Pro Ile Ser His Ile Arg Leu Trp Ala Leu Gln
65 70 75 80

Leu Ile Phe Val Ser Ser Pro Ala Leu Leu Val Ala Met His Val Ala
85 90 95

Tyr Arg Arg His Glu Lys Lys Arg Lys Phe Ile Lys Gly Glu Ile Lys
 100 105 110
 Ser Glu Phe Lys Asp Ile Glu Glu Ile Lys Thr Gln Lys Val Arg Ile
 115 120 125
 Glu Gly Ser Leu Trp Trp Thr Tyr Thr Ser Ser Ile Phe Phe Arg Val
 130 135 140
 Ile Phe Glu Ala Ala Phe Met Tyr Val Phe Tyr Val Met Tyr Asp Gly
 145 150 155 160
 Phe Ser Met Gln Arg Leu Val Lys Cys Asn Ala Trp Pro Cys Pro Asn
 165 170 175
 Thr Val Asp Cys Phe Val Ser Arg Pro Thr Glu Lys Thr Val Phe Thr
 180 185 190
 Val Phe Met Ile Ala Val Ser Gly Ile Cys Ile Leu Leu Asn Val Thr
 195 200 205
 Glu Leu Cys Tyr Leu Leu Ile Arg Tyr Cys Ser Gly Lys Ser Lys Lys
 210 215 220
 Pro Val
 225

<210> 443
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 443
 Val Lys Leu Cys Gly Ile Asp Pro Cys Pro Asn Leu Val Asp Cys Phe
 5 10 15

Ile Ser Arg Pro Gly Cys Gly
 20

<210> 444
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 444
 caatcaggca tgcacaacaa actgtatatc ggaaac

<210> 445
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 445
 cgtcaagatc ttcattactt ccgtcttgac

30

<210> 446
 <211> 579
 <212> PRT
 <213> Homo sapiens

<400> 446

Met Asn Lys Leu Tyr Ile Gly Asn Leu Ser Glu Asn Ala Ala Pro Ser
 5 10 15

Asp Leu Glu Ser Ile Phe Lys Asp Ala Lys Ile Pro Val Ser Gly Pro
 20 25 30

Phe Leu Val Lys Thr Gly Tyr Ala Phe Val Asp Cys Pro Asp Glu Ser
 35 40 45

Trp Ala Leu Lys Ala Ile Glu Ala Leu Ser Gly Lys Ile Glu Leu His
 50 55 60

Gly Lys Pro Ile Glu Val Glu His Ser Val Pro Lys Arg Gln Arg Ile
 65 70 75 80

Arg Lys Leu Gln Ile Arg Asn Ile Pro Pro His Leu Gln Trp Glu Val
 85 90 95

Leu Asp Ser Leu Leu Val Gln Tyr Gly Val Val Glu Ser Cys Glu Gln
 100 105 110

Val Asn Thr Asp Ser Glu Thr Ala Val Val Asn Val Thr Tyr Ser Ser
 115 120 125

Lys Asp Gln Ala Arg Gln Ala Leu Asp Lys Leu Asn Gly Phe Gln Leu
 130 135 140

Glu Asn Phe Thr Leu Lys Val Ala Tyr Ile Pro Asp Glu Thr Ala Ala
 145 150 155 160

Gln Gln Asn Pro Leu Gln Gln Pro Arg Gly Arg Arg Gly Leu Gly Gln
 165 170 175

Arg Gly Ser Ser Arg Gln Gly Ser Pro Gly Ser Val Ser Lys Gln Lys
 180 185 190

Pro Cys Asp Leu Pro Leu Arg Leu Leu Val Pro Thr Gln Phe Val Gly

195					200					205					
Ala	Ile	Ile	Gly	Lys	Glu	Gly	Ala	Thr	Ile	Arg	Asn	Ile	Thr	Lys	Gln
210						215					220				
Thr	Gln	Ser	Lys	Ile	Asp	Val	His	Arg	Lys	Glu	Asn	Ala	Gly	Ala	Ala
225					230					235					240
Glu	Lys	Ser	Ile	Thr	Ile	Leu	Ser	Thr	Pro	Glu	Gly	Thr	Ser	Ala	Ala
				245					250					255	
Cys	Lys	Ser	Ile	Leu	Glu	Ile	Met	His	Lys	Glu	Ala	Gln	Asp	Ile	Lys
			260					265					270		
Phe	Thr	Glu	Glu	Ile	Pro	Leu	Lys	Ile	Leu	Ala	His	Asn	Asn	Phe	Val
		275					280					285			
Gly	Arg	Leu	Ile	Gly	Lys	Glu	Gly	Arg	Asn	Leu	Lys	Lys	Ile	Glu	Gln
	290					295					300				
Asp	Thr	Asp	Thr	Lys	Ile	Thr	Ile	Ser	Pro	Leu	Gln	Glu	Leu	Thr	Leu
305					310					315					320
Tyr	Asn	Pro	Glu	Arg	Thr	Ile	Thr	Val	Lys	Gly	Asn	Val	Glu	Thr	Cys
				325					330					335	
Ala	Lys	Ala	Glu	Glu	Glu	Ile	Met	Lys	Lys	Ile	Arg	Glu	Ser	Tyr	Glu
			340					345					350		
Asn	Asp	Ile	Ala	Ser	Met	Asn	Leu	Gln	Ala	His	Leu	Ile	Pro	Gly	Leu
		355					360					365			
Asn	Leu	Asn	Ala	Leu	Gly	Leu	Phe	Pro	Pro	Thr	Ser	Gly	Met	Pro	Pro
	370					375					380				
Pro	Thr	Ser	Gly	Pro	Pro	Ser	Ala	Met	Thr	Pro	Pro	Tyr	Pro	Gln	Phe
385					390					395					400
Glu	Gln	Ser	Glu	Thr	Glu	Thr	Val	His	Leu	Phe	Ile	Pro	Ala	Leu	Ser
				405					410					415	
Val	Gly	Ala	Ile	Ile	Gly	Lys	Gln	Gly	Gln	His	Ile	Lys	Gln	Leu	Ser
			420					425					430		
Arg	Phe	Ala	Gly	Ala	Ser	Ile	Lys	Ile	Ala	Pro	Ala	Glu	Ala	Pro	Asp
		435					440					445			
Ala	Lys	Val	Arg	Met	Val	Ile	Ile	Thr	Gly	Pro	Pro	Glu	Ala	Gln	Phe
	450					455					460				
Lys	Ala	Gln	Gly	Arg	Ile	Tyr	Gly	Lys	Ile	Lys	Glu	Glu	Asn	Phe	Val
465					470					475					480
Ser	Pro	Lys	Glu	Glu	Val	Lys	Leu	Glu	Ala	His	Ile	Arg	Val	Pro	Ser
				485					490					495	

Phe Ala Ala Gly Arg Val Ile Gly Lys Gly Gly Lys Thr Val Asn Glu
500 505 510

Leu Gln Asn Leu Ser Ser Ala Glu Val Val Val Pro Arg Asp Gln Thr
515 520 525

Pro Asp Glu Asn Asp Gln Val Val Val Lys Ile Thr Gly His Phe Tyr
530 535 540

Ala Cys Gln Val Ala Gln Arg Lys Ile Gln Glu Ile Leu Thr Gln Val
545 550 555 560

Lys Gln His Gln Gln Gln Lys Ala Leu Gln Ser Gly Pro Pro Gln Ser
565 570 575

Arg Arg Lys

<210> 447
<211> 1743
<212> DNA
<213> Homo sapiens

<400> 447
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atcttcaagg acgccaagat cccgggtgtcg ggacccttcc tgggtgaagac tggctacgcg 120
ttcgtggact gcccgagcga gagctggggcc ctcaaggcca tcgaggcgct ttcaggtaaa 180
atagaactgc acgggaaacc catagaagtt gagcactcgg tccccaaaag gcaaaggatt 240
cggaaacttc agatacgaaa tatccgcct catttacagt gggagggtgct ggatagttta 300
ctagtccagt atggagtggg ggagagctgt gagcaagtga aactgactc ggaaactgca 360
gttgtaaatg taacctattc cagtaaggac caagctagac aagcactaga caaactgaat 420
ggatttcagt tagagaattt caccttgaaa gtagcctata tccctgatga aacggccgcc 480
cagcaaaacc ccttgacgca gccccgaggt cgccgggggc ttgggcagag gggctcctca 540
aggcaggggt ctccaggatc cgtatccaag cagaaaccat gtgatttgcc tctgcgcctg 600
ctgggtccca cccaatttgt tggagccatc ataggaaaag aaggtgccac cattcggaac 660
atcaccaaac agaccagtc taaaatcgat gtccaccgta aagaaaatgc gggggctgct 720
gagaagtcga ttactatcct ctctactcct gaaggcacct ctgcggcttg taagtctatt 780
ctggagatta tgcataagga agctcaagat ataaaattca cagaagagat ccccttgaag 840
atttttagctc ataataactt tggttgacgt cttattggta aagaaggaag aaatcttaa 900
aaaattgagc aagacacaga cactaaaatc acgatatctc cattgcagga attgacgctg 960
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caagcacatt taattcctgg attaaatctg aacgccttgg gtctgttccc acccacttca 1140
gggatgccac ctcccacctc agggccccct tcagccatga ctctatcagt cgggtgccatc 1260
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agtcctaaag aagaggtgaa acttgaagct catatcagag tgccatcctt tgctgctggc 1500
agagttattg gaaaaggagg caaacgggtg aatgaacttc agaatttgtc aagtgcagaa 1560
gttggtgtcc ctctgaccca gacacctgat gagaatgacc aagtggttgt caaaataact 1620
ggtcacttct atgcttgcca ggttgcccag agaaaaattc aggaaattct gactcaggta 1680

aagcagcacc aacaacagaa ggctctgcaa agtggaccac ctcagtcaag acggaagtaa 1740
tga 1743

<210> 448
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 448
cgtactagca tatgaacaaa ctgtatatcg gaaac 35

<210> 449
<211> 579
<212> PRT
<213> Homo sapiens

<400> 449
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Asp Leu Glu Ser Ile Phe Lys Asp Ala Lys Ile Pro Val Ser Gly Pro
20 25 30
Phe Leu Val Lys Thr Gly Tyr Ala Phe Val Asp Cys Pro Asp Glu Ser
35 40 45
Trp Ala Leu Lys Ala Ile Glu Ala Leu Ser Gly Lys Ile Glu Leu His
50 55 60
Gly Lys Pro Ile Glu Val Glu His Ser Val Pro Lys Arg Gln Arg Ile
65 70 75 80
Arg Lys Leu Gln Ile Arg Asn Ile Pro Pro His Leu Gln Trp Glu Val
85 90 95
Leu Asp Ser Leu Leu Val Gln Tyr Gly Val Val Glu Ser Cys Glu Gln
100 105 110
Val Asn Thr Asp Ser Glu Thr Ala Val Val Asn Val Thr Tyr Ser Ser
115 120 125
Lys Asp Gln Ala Arg Gln Ala Leu Asp Lys Leu Asn Gly Phe Gln Leu
130 135 140
Glu Asn Phe Thr Leu Lys Val Ala Tyr Ile Pro Asp Glu Thr Ala Ala
145 150 155 160
Gln Gln Asn Pro Leu Gln Gln Pro Arg Gly Arg Arg Gly Leu Gly Gln
165 170 175

Arg Gly Ser Ser Arg Gln Gly Ser Pro Gly Ser Val Ser Lys Gln Lys
 180 185 190
 Pro Cys Asp Leu Pro Leu Arg Leu Leu Val Pro Thr Gln Phe Val Gly
 195 200 205
 Ala Ile Ile Gly Lys Glu Gly Ala Thr Ile Arg Asn Ile Thr Lys Gln
 210 215 220
 Thr Gln Ser Lys Ile Asp Val His Arg Lys Glu Asn Ala Gly Ala Ala
 225 230 235 240
 Glu Lys Ser Ile Thr Ile Leu Ser Thr Pro Glu Gly Thr Ser Ala Ala
 245 250 255
 Cys Lys Ser Ile Leu Glu Ile Met His Lys Glu Ala Gln Asp Ile Lys
 260 265 270
 Phe Thr Glu Glu Ile Pro Leu Lys Ile Leu Ala His Asn Asn Phe Val
 275 280 285
 Gly Arg Leu Ile Gly Lys Glu Gly Arg Asn Leu Lys Lys Ile Glu Gln
 290 295 300
 Asp Thr Asp Thr Lys Ile Thr Ile Ser Pro Leu Gln Glu Leu Thr Leu
 305 310 315 320
 Tyr Asn Pro Glu Arg Thr Ile Thr Val Lys Gly Asn Val Glu Thr Cys
 325 330 335
 Ala Lys Ala Glu Glu Glu Ile Met Lys Lys Ile Arg Glu Ser Tyr Glu
 340 345 350
 Asn Asp Ile Ala Ser Met Asn Leu Gln Ala His Leu Ile Pro Gly Leu
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 Asn Leu Asn Ala Leu Gly Leu Phe Pro Pro Thr Ser Gly Met Pro Pro
 370 375 380
 Pro Thr Ser Gly Pro Pro Ser Ala Met Thr Pro Pro Tyr Pro Gln Phe
 385 390 395 400
 Glu Gln Ser Glu Thr Glu Thr Val His Leu Phe Ile Pro Ala Leu Ser
 405 410 415
 Val Gly Ala Ile Ile Gly Lys Gln Gly Gln His Ile Lys Gln Leu Ser
 420 425 430
 Arg Phe Ala Gly Ala Ser Ile Lys Ile Ala Pro Ala Glu Ala Pro Asp
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Arg Arg Lys

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1000/00-113001

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10007007-113001

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<213> Homo sapiens

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Gly Arg Arg Gly Pro Gly Gln Arg
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